

The Ninetieth  
Annual Catalogue  
of  
Denison University  
For the Year 1920-1921



GRANVILLE, OHIO  
1921

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# The University Calender

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## 1921

Spring Recess begins	Friday	April 1, 3:30 p. m.
Spring Recess ends	Monday	April 11, 12:00
Memorial Day (Holiday)	Monday	May 30
Final Examinations	Tuesday-Friday	June 7-10
Baccalaureate Sermon	Sunday	June 12
Graduating Exercises of Doane Academy	Monday	June 13
Alumni Day	Tuesday	June 14
Meeting of Board of Trustees	Tuesday	June 14, 3:00 p. m.
President's Reception	Tuesday	June 14, 8:00 p. m.
Commencement Day		
Alumni Dinner	Wednesday	June 15

## SUMMER VACATION—June 15–September 14.

Opening of First Semester	Wednesday	September 14
Registration of New Students		
Registration of Old Students	Thursday	September 15
First Convocation, Baptist Church	Friday	Sept. 16, 11:30 a. m.
Armistice Day (Half-Holiday)	Friday	November 11
Thanksgiving Recess	Thursday-Friday	November 24-25
Christmas Recess begins	Wednesday	Dec. 21, 3:30 p. m.
1922		
Christmas Recess ends	Wednesday	Jan. 4, 7:30 a. m.
Mid-year Examinations	Tuesday-Friday	Jan. 31-Feb. 3
First Semester ends	Friday	February 3
Opening of Second Semester	Monday	February 6, 7:30 a. m.
Registration Day		
Day of Prayer for Colleges	Thursday	February 16
Washington's Birthday	Wednesday	February 22
Founders' Day (Holiday)		
Spring Recess begins	Friday	March 31, 3:30 p. m.
Spring Recess ends	Tuesday	April 11, 7:30 a. m.
Memorial Day (Holiday)	Tuesday	May 30
Commencement Day	Wednesday	June 14

# Board of Trustees

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## OFFICERS OF THE BOARD

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AMBROSE SWASEY, Sc.D., President.  
COL. EDWARD A. DEEDS, B.S., Vice President  
MILLARD BRELSFORD, D.D., Secretary.

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## MEMBERS

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*President of the University*

### *Class I—Term Expires June, 1921.*

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BENJAMIN F. McCANN, A.M. .... Dayton  
AMBROSE SWASEY, Sc.D. .... Cleveland  
TORRENCE HUFFMAN, Esq. .... Dayton  
VINTON R. SHEPARD, A.M. .... Cincinnati  
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REV. JOHN F. HERGET, A.M. .... Cincinnati  
LEWIS R. ZOLLARS, Esq. .... Canton  
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FRED D. BARKER, Ph.B., M.D. .... Dayton  
JOHN C. HASWELL, Esq. .... Dayton

*Class II—Term Expires June, 1922.*

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EDWARD CANBY, ESQ.	Dayton
CHARLES H. PRESCOTT, ESQ.	Cleveland
HARRY W. AMOS, B.L.	Cambridge
REV. MILLARD BRELSFORD, A.B., D.D.	Cleveland
JULIUS G. LAMSON, ESQ.	Toledo
FRANKLIN G. SMITH, ESQ.	Cleveland
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REV. TILESTON F. CHAMBERS, A.M.	Granville
REV. HENRY T. CRANE.	Cincinnati
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*Class III—Term Expires June, 1923.*

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BURTON CASE, ESQ.	Granville
PROFESSOR ALFRED D. COLE, A.M.	Columbus
WALLACE H. CATHCART, B.S.	Cleveland
PROFESSOR OSMAN C. HOOPER, A.M., L.H.D.	Columbus
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COL. EDWARD A. DEEDS, B.S.	Dayton
DAVID E. GREEN, B.S.	Cleveland
GEORGE H. OL MSTED, ESQ.	Cleveland
CHARLES F. LANG, ESQ.	Cleveland

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\*Deceased

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JOHN C. HASWELL..... Term expires 1921

WILLARD D. CHAMBERLIN..... Term expires 1923

FREDERICK P. BEAVER..... Term expires 1924

EDWARD CANBY..... Term expires 1925

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*Professor Emeritus of the Romance Languages*

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*Professor of Rhetoric and English Literature*

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*Dean of Doane Academy*

WILLIS A. CHAMBERLIN, A.M., PH.D.,  
*Professor of Modern Languages*

MALCOLM E. STICKNEY, A.M.,  
*Professor of Botany*

PAUL BIEFELD, A.B., PH.D.,  
*Professor of Astronomy and Director of the Swasey Observatory*

FORBES B. WILEY, A.B., PH.D.,  
*Benjamin Barney Professor of Mathematics*

CLARENCE D. COONS, M.S.,  
*Henry Chisholm Professor of Physics*

THEODORE S. JOHNSON, M.S.,  
*Professor of Civil Engineering*

THOMAS A. LEWIS, A.B., PH.D.,  
*Professor of Education and Philosophy*

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WILLIAM CLARENCE EBAUGH, B.S., PH.D.,  
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*Professor of History*

## DENISON UNIVERSITY

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*Professor of Physical Education*

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*Professor of Geology*

KARL H. ESCHMAN, A.M.,  
*Professor of Music and Director of the Conservatory*

ROLLIN H. TANNER, A.M., PH.D.,  
*Professor of the Greek Language and Literature*  
*Dean of Granville College*

ROGER P. MCCUTCHEON, A.M., PH.D.,  
*Professor of English*

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*Professor of Military Science and Tactics*

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*Professor of Zoology*

ANNA B. PECKHAM, A.M.,  
*Associate Professor of Mathematics*

AUGUST ODEBRECHT, A.M.,  
*Associate Professor of Modern Languages*

HARRIET D. JOHNSON, A.B.,  
*Associate Professor of Latin*

HERMAN C. BEYLE, A.M.,  
*Associate Professor of Political Science and Economics*

ROBERT C. WARD, A.M.,  
*Associate Professor of Modern Languages*

EVERETT P. JOHNSTON, A.M.,  
*Assistant Professor of Public Speaking*

FREDERICK G. DETWEILER, A.M., B.D.,  
*Assistant Professor of Bible*



ANNIE M. MACNEILL, A.M.,  
*Assistant Professor of English*

CHARLES H. DICKERMAN, A.B.,  
*Assistant Professor of English*

ERI J. SHUMAKER, A.M.,  
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*Acting Assistant Professor of Bible*

FANNIE J. FARRAR,  
*Instructor in Piano*

CORINNE TETEDOUX, A.B.,  
*Instructor in Household Economics*

ROWLAND A. SHEETS, A.B.,  
*Instructor in Mathematics*

MIRIAM AKERS, A.M.,  
*Instructor in Classics*

EDSON C. RUPP, A.B.,  
*Instructor in Mathematics*

EDITH EMERSON, A.M.,  
*Instructor in Classics*

ELIZABETH M. TANNER, A.B.,  
*Instructor in Modern Languages*

RUTH ATWELL, A.M.,  
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DWIGHT MOORE, B.S.,  
*Instructor in Biology*

RICHARD H. HOWE, B.S.,  
*Instructor in Physics*

## DENISON UNIVERSITY

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*Instructor in History*

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*Instructor in Mathematics*

SIDNEY JENKINS, B.S.,  
*Instructor in Physical Education*

ELSIE D. TAYLOR, PH.B.,  
*Instructor in English*

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*Instructor in Spanish*

VICTOR V. LYTLE,  
*Instructor in Organ*

GAYLE I. SMITH,  
*Instructor in Violin*

FRANCES HENRY,  
*Instructor in Piano*

MARY R. FITCH,  
*Instructor in Voice*

CHARLES MAREAU,  
*Instructor in Voice*

JOSEPHINE BONAZZI-LYTLE,  
*Instructor in Music*

IDA MADDOCK,  
*Instructor in Music*

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*Dean of Doane Academy*

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*Treasurer*

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*Business Manager*

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*Librarian*

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*Recorder*

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*Assistant to the Treasurer*

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*Assistant to the Dean*

ELSIE D. TAYLOR, Ph.B.,

*Alumni Secretary*

## DENISON UNIVERSITY

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ALICE K. HERRICK,  
*Matron of Shepardson College*

CARRIE M. ALTROGGE,  
*Director of Shepardson Commons*

MARIE SINSABAUGH,  
*Assistant to the Treasurer*

RACHEL T. PLUMB,  
*Shepardson College Nurse*

## Committees of the Faculty

---

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F. G. BOUGHTON

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R. H. TANNER

MRS. C. T. BRUMBACK

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A. ODEBRECHT

*Committee on Library*

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F. B. WILEY	T. A. LEWIS

*Committee on Catalogue*

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F. G. BOUGHTON	R. P. McCUTCHEON

*Committee on High School Oratorical Contests*

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F. G. BOUGHTON	E. P. JOHNSTON

*Committee on Health*

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T. S. JOHNSON	W. LIVINGSTON
RUTH H. ATWELL	MRS. A. K. HERRICK

*Committee on College Life Course*

C. W. CHAMBERLAIN	R. P. McCUTCHEON
H. D. JOHNSON	R. C. WARD

# DENISON UNIVERSITY

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## HISTORY

The foundations of Denison University were laid in the deep conviction of the pioneers of Ohio, that educated men were needed in developing the best interests of the young communities. The members of the Baptist denomination were among the first to respond to this urgent need by founding a literary and theological institution at Granville. Classes were opened for instruction in the fall of 1831.

The institution embraced at first some features of an agricultural college and theological school, occupying a farm about one and a half miles southwest of town. But these features were soon abandoned as impracticable in connection with the collegiate instruction. In 1856 the present site on the hill north of the village was secured and the college was moved to the new location.

Its growth was slow but along substantial lines. The college was fortunate in attracting to its service instructors who were graduates of the best eastern institutions and devoted to the high ideals of learning. During the last thirty years it has grown more rapidly, sharing in the general intellectual stimulation. In that period it has expanded in material equipment and in scholastic lines.

In 1887 a women's department was added to the educational plant. Education for young women had been provided since 1832 in a private institute at Granville, which was one of the earliest schools of the kind in the country. It prospered especially during the ownership of Dr. D. Shepardson, a most zealous advocate of women's education. He gave both school and property in the above mentioned year to the Baptist denomination, which accepted the gift under the name of Shepardson College for Women. It existed side by side with the men's institution, sharing the library and other facilities of the latter, but maintaining a separate organization. The trend was toward a closer affiliation, which was accomplished in 1900 by its incorporation

as the women's department of Denison University. Its students enjoy the same scholastic advantages as the men of Denison and receive the same recognition on completion of the course.

Provision was made for a musical training in the organization of the Denison Conservatory of Music as a department complete in itself, but affiliated with the collegiate departments.

A preparatory department of the college has always been maintained to furnish the training adequate for entrance to the higher courses. In 1895 this was more definitely established as a complete institution and named Doane Academy. It has its own faculty and organization, while enjoying at the same time the facilities of the larger institution.

The University consists at present of Granville College for Men, Shepardson College for Women, the Conservatory of Music and Doane Academy.

Denison University is a religious institution in the sense that it is fostered by a religious denomination and that its entire life and management are dominated by religious motives. There is no attempt nor desire to force instruction into sectarian channels, and all advantages are freely offered without any religious distinction. The aim of Denison University is to provide a thorough college education under such influences as strengthen christian faith and build up christian character.

### LOCATION

Granville, the seat of Denison University, is known as a place of rare natural beauty. It is situated in a fertile valley, encompassed by hills of moderate altitude. From College Hill the views of the country-side are most pleasing and inspiring. The town is 28 miles by road east of Columbus. It lies on the Toledo and Ohio Central Division of the New York Central Railway, and on the Ohio Electric Line. It is reached by the Pennsylvania Lines and the Baltimore and Ohio Railroad at Newark, 20 minutes distant by interurban service in electric car or auto-bus.

Granville is one of the oldest towns in the state, having been settled by colonists from Massachusetts in 1805. From these pioneers it received the best features of New England life. High



moral and intellectual ideals have always marked the place. Although small, the town enjoys many of the advantages of city life. It has well-equipped churches and modern civic activities. In material equipment it enjoys a pure water-supply, a modern sewerage system, paved streets, and electric street-lighting.

## GROUPS AND BUILDINGS

### ENDOWMENT AND PROPERTY

At present the property and endowment of Denison University is valued at two and a half million dollars. Of this sum one-half is in income bearing endowment, and the rest in grounds, buildings, and equipment.

### GATES AND WALKS

College Hill, the site of the main buildings of the University, is approached by a winding avenue from the town. At the east entrance to the grounds is an ornamental terrace of brick, with walks leading on either side to the various halls and to the Library. From Shepardson Campus the entrance is through two colonial gateways of brick at either end of a semi-circular walk which leads to the Plaza on the south slope of the hill. These adornments and conveniences of the campus were supplied through the beneficence of Mr. E. J. Barney, LL.D.

### THE NEW CAMPUS

The campus of Denison University has recently been greatly extended through the generosity of Colonel Edward A. Deeds, Vice-President of the Board of Trustees, and now covers a little over two hundred and fifty acres. This addition provides amply for the extended building project of the University, and furnishes also adequate space for all forms of outdoor recreation. The new campus is being developed according to plans made by landscape architects of the highest standing. In addition to the athletic fields, there has been constructed a pathway three miles in length, winding through woods and fields, with rustic houses and equipment at different points for outdoor diversions. In all, seventy-five acres are set aside for recreational purposes. On the

college farm a good share of the products needed for Shepardson College Commons is grown.

### RESIDENCE HALLS

**Dormitories for Men**—Two dormitories, Marsh Hall and Talbot Hall, together furnish accommodations for about one hundred and fifty men. They are four story brick buildings, with modern conveniences, including lavatories on each floor, and are supplied with heat and light from the central power plant. Marsh Hall, which was partially destroyed by fire in 1918, has been fully reconstructed as a residence hall of the Denison Commons Club. It provides living-rooms and parlors, a dining room for one hundred and fifty, and an airy sleeping apartment on the top floor.

**Shepardson Dormitories.**—Burton Hall, King Hall and Stone Hall, located at the foot of College Hill on the Shepardson quadrangle, facing Broadway, furnish accommodations for one hundred and twenty-eight young women, together with reception parlors, reading rooms, and apartments for Shepardson officers and faculty members. The conservatory building and four additional houses near the campus, owned or leased by the University, accommodate about sixty more. These, together with certain selected private homes in the village, are employed temporarily, pending the erection of new residence halls at the east end of College Hill. All the halls, houses and homes are supervised by teachers and matrons under the same rules, and all the students, wherever housed, board together in Shepardson Commons on the Campus.

### ACADEMIC HALLS

**Barney Memorial Hall.**—This hall was built and equipped for the college by the late Eugene J. Barney, LL.D., of the Board of Trustees, in memory of his father, Eliam E. Barney, who was one of the most generous and devoted supporters of the institution in its early days. The building is of fireproof structure throughout, and is devoted to the departments of Physics, Geology, and Civil Engineering.

**Doane Academy Hall.**—This is the gift of the late Dr. W. H. Doane, member of the Board of Trustees. Although erected primarily for the Academy, much of its space is devoted at present to the College.

The Officers of Administration, including the President, the Secretary, the Treasurer, the Dean of the College, and the Dean of the Academy, occupy offices on the first and second floors. The third floor consists of a large assembly room, seating about 500.

**Swasey Observatory.**—The Observatory was erected in 1909 through the generosity of Ambrose Swasey, Sc.D., President of the Board of Trustees. It is of white Vermont marble and is equipped with modern astronomical instruments of the best quality.

**Doane Library.**—The main university Library is at present housed in Doane Hall, a building presented by the late Dr. W. Howard Doane in 1879. It is open to instructors and students in all departments, with free access to the shelves. The overcrowded condition of the present building has brought about the establishment of special collections and reading rooms in several departments, including Latin, Greek, English, Modern Languages, and the various scientific departments.

**Men's Gymnasium.**—Cleveland Hall is a modern structure erected to meet the recreational needs of the men. The main part of the building is occupied by a gymnasium, containing a large floor for athletic games and exercises, a running track, swimming pool, and large space for locker rooms. The second floor contains the assembly room of the Young Men's Christian Association, the Trophy Room and Reading Room. The halls of the Franklin and Calliopean Literary Societies are located on the upper floor.

**Women's Gymnasium.**—The Doane Gymnasium for the young women of Shepardson College was donated by Dr. Doane. It is equipped with swimming pool and has a large floor for class athletics and sports.

**Conservatory of Music.**—The large residence of former Professor A. U. Thresher is used as the main building for the Conservatory of Music.

**Recital Hall.**—Adjoining the Conservatory is the Recital Hall arranged for the public musical recitals. It contains a pipe organ and grand pianos, and is furnished with stage and curtains, and a lantern for motion-pictures.

**Baptist Church.**—The Auditorium of the Baptist Church is used three times weekly for the assembly of all the students of the University for Chapel Service.

**Central Heating and Lighting Plant.**—A modern system of lighting and heating is installed in the central plant. The Yaryan system of hot-water heating is employed. There are two large boilers for generating steam, and one auxiliary boiler for hot water. Two duplex pumps cause the circulation of hot water to all the college buildings.

Two dynamos of 75 and 50 Kilowatt capacity respectively, furnish lights for buildings and grounds. A modern switch board permits the control of the lighting from the plant.

#### BEAVER FIELD

Through the generosity of F. P. Beaver, a member of the Board of Trustees, the University acquired one of the first athletic fields constructed in Ohio. Beaver Field provides a football field, a baseball field, and a quarter-mile track.

#### DEEDS FIELD

In honor of the donor, Col. Edward A. Deeds, the new recreation ground of the University is known as Deeds Field. Work on this ground has been in progress for three years. A concrete grandstand, seating 2500, and a football field for inter-collegiate games are ready for use. Deeds Field covers 25 acres and provides the widest opportunities for outdoor sports. On the upper terrace is the 'varsity foot-ball field, quarter-mile track and grandstand, artistically fitted to the northern slope of College

Hill and shaded by the College Woods. On successive terraces are located ten tennis courts, a baseball field and grandstand, and four practice football or baseball fields.

The field is nearing completion and will furnish unusual facilities for athletics and recreation. It will be possible for every student in the University to take part in some form of outdoor exercise daily.

#### PLANS FOR FUTURE BUILDINGS

For five years a group of architects and landscape experts has been engaged upon plans for the grounds and buildings of the University. Construction has been delayed on account of the high cost of materials and labor. Construction of the group of buildings will probably begin in the spring of 1921. Among the most immediate and pressing needs of the institution are a new library building, which would add at once very materially to the effectiveness of every department of instruction, a chemical laboratory, a hospital, dormitories for men and women and an administration building.

#### RESERVE OFFICERS' TRAINING CORPS.

Denison is selected by the U. S. Government as one of the institutions in which a military department is established, by Act of Congress, June 3, 1916, for the training of Reserve Officers of the Army. An officer of the regular Army is stationed at Denison and a course in military science and tactics has been inaugurated, covering four years of theoretical and practical work. Attendance at a summer training camp under actual military conditions may be included, the Government furnishing transportation to the camp and clothing and subsistence while there. Uniforms and equipment are furnished by the Government. In the last two years commutations of rations are allowed, amounting approximately to \$150.00 per year. An additional allowance of \$1.00 per day during attendance at camp during three years is paid, making a total compensation of nearly \$350.00 for the two years.

A student who successfully completes this course and accepts a commission in the Officers' Reserve Corps may, at his option, be appointed and commissioned by the President of the United States as a temporary second lieutenant of the United States Army for a period not to exceed six months, during which time he will receive the allowance of a second lieutenant and pay at the rate of \$100.00 per month.

### DEPARTMENTAL EQUIPMENT

Denison is a college of liberal arts and sciences. During the past twenty-five years the growth has been rapid in the scientific departments. Without competing with technological schools the science departments have been developed to that degree that they serve admirably those students who are looking ahead to technical professions. During the same period additional departments of language, history, education and kindred subjects have been organized, and the whole course has been strengthened. A brief survey of the physical equipment of the departments will indicate the resources of the College in these respects.

#### PHYSICS

The Department of Physics occupies the first and second floors of Barney Memorial Hall. Thirty-one rooms are devoted to administration, instruction, and laboratory purposes. Photometric and photographic dark rooms and a constant temperature vault are included in the equipment. Several rooms are fitted up for research work and for work in special lines. A complete supply of modern apparatus, including a mechanic's shop, is available.

#### GEOLOGY

The Department of Geology occupies the third floor of Barney Hall. The lecture room is supplied with stereopticon and screen, and a collection of 5000 slides. The geographic laboratory contains an unusually fine equipment of maps and relief models and a special case in which is filed a complete set of the topographical sheets of the U. S. Geological Survey. More than 300 drawers

of mineral specimens and fossil collections are available. The departmental library, named in honor of the late C. K. Gilbert, contains his personal collection of books and pamphlets presented in recognition of the valuable contributions to geology made at Denison.

#### CIVIL ENGINEERING

The Department of Civil Engineering occupies the upper floors of Barney Hall. It possesses a full equipment of instruments for field work. For illustrative purposes there is a well selected supply of drawings and specifications of bridges, water systems, and all forms of modern high way construction. The drafting rooms are well lighted by large sky lights and furnished with the usual requirements.

#### CHEMISTRY

The Chemistry Department has lecture room and laboratories provided for it temporarily in the basement floors of Doane Academy. There are nine rooms, including laboratories for general and advanced Chemistry, stock rooms, office and department library. The equipment is ample for the needs either of the general student or for those looking to special training in medicine, pharmacy, industrial chemistry, and chemical engineering.

#### BOTANY AND ZOOLOGY

These two departments are located in Talbot Hall. The arrangements include lecture rooms and laboratories for general and advanced classes and facilities for research work. There is opportunity for bacteriological and genetic studies.

The Herbarium embraces representative collections from the United States and Mexico and is especially rich in local flora. The department library includes several botanical and zoological journals, which are accessible to students, besides the regular exchanges of the Denison Scientific Association.

#### ASTRONOMY

The equipment of Swasey Observatory is intended both for teaching and also for research work in special lines. The equipment consists of a nine-inch Equatorial of the Standard Warner

and Swasey type, with optical parts by Brashear, a Warner and Swasey position micrometer and a wedge photometer, by Cooke and Sons, England. The transit room contains a combined transit and zenith telescope of four-inch aperture. Mean time and sidereal clocks by Riefler are connected by means of a chronograph with both the equatorial and the transit. The library is furnished with standard astronomical periodicals both American and European. A wireless receiving station has been installed, in daily connection with the Arlington Station.

#### MATHEMATICS

The laboratory of this department is equipped with tables and chairs to accommodate 65 students at one time. Well-lighted class rooms and offices are occupied by this department in Doane Academy. The special library contains numerous mathematical journals available for advanced students.

#### LANGUAGES

The departments of English, Modern Languages, and Latin occupy several class-rooms on the first and second floors of Talbot Hall. Special libraries and reading rooms containing valuable sets of publications and works of reference are included in their equipment. The essential works of general literature are found in the main library.

#### GREEK

The class-room is fitted up with special tables and chairs as the laboratory of Greek. A lantern and views of Greek scenes and archaeology are included in the equipment.

#### PHILOSOPHY AND EDUCATION

Advantages are provided in this work to meet the professional requirements both on the theoretical and practical side for teachers in Ohio. Arrangements are made for practice teaching. A Committee on Appointments, to help intending teachers, is maintained.

#### HISTORY AND POLITICAL SCIENCE

This department has the use of a collection of maps illustrating political development. The main Library has a well-selected



stock of authoritative books in this field, and the supply is increased each year by the purchase of the best works.

#### BIBLE

The facilities of the department include a series of modern wall maps, an increasing library equipment, and the opportunity for practical religious service in local churches.

#### JOURNALISM

In 1919 instruction in journalism was authorized by the Faculty, and the work was begun in the same year. The journalism room is equipped with desks and typewriters, and receives the most important daily papers.

#### MILITARY SCIENCE

The Armory is located for the present on the lower floor of Barney Science Hall. Students of this department receive regulation O. D. woolen uniforms and the complete equipment of an infantry soldier of the U. S. Army. The armament consists of Springfield rifles of modern type, together with the following weapons developed during the World War: 4 Browning Automatic Rifles, 2 Browning Machine Guns, 1 3-inch Stokes Mortar, 1 37-mm. one-pounder cannon, hand and rifle grenades.

#### DEPARTMENTAL ORGANIZATIONS

One of the privileges of students and faculty alike is membership in the Denison Scientific Association. The scope of this organization is wider than its name implies, as other than science departments co-operate with it. Its function is four-fold, as stated below.:

1. *The Bulletin of the Scientific Laboratories* is published by the Association. This is a research journal, founded by C. L. Herrick in 1887, whose merit is recognized by learned societies in all parts of the civilized world. The Association has for many years exchanged publications with a large group of these societies.
2. The Association co-operates with the University Library in maintaining on file research publications from like societies in our own and other countries.

3. The Association aids Denison students to keep in touch with progress in investigation by means of lectures by men of the Denison Faculty and of other institutions on subjects of special investigation.

4. What originated as departmental clubs or societies are now maintained as sections of the Scientific Association. The sections make it possible for the students to present papers before their fellows and discuss, together with the faculty, topics not regularly included in the scheduled courses. The departments of Botany, Geology, Chemistry, Mathematics, Zoology, Engineering, History, English, Modern Languages and Classical Languages have such sections.

The Association schedules weekly meetings, those of the sections alternating with those of the whole group.

### STUDENT ORGANIZATIONS

These are divided into five groups as described below:

#### 1. ADMINISTRATIVE

The student bodies of Granville College and Shepardson College have their respective Student Associations for the purpose of self-government. These organizations are under the leadership of student officers and boards, elected by their fellows, which administer the powers delegated to them by the Board of Trustees and the Faculty of the University. Matters of student honor and student discipline are largely handled by these Associations in conjunction with a committee from the faculty.

#### 2. RELIGIOUS

These include the Y. M. C. A., the Y. W. C. A., the Student Volunteer Band and the Ministerial Association, all of which co-operate in maintaining the high Christian standards and the wholesome atmosphere of the college. They maintain a comprehensive scheme of Bible and of mission study in connection with the Sunday Schools of the local churches. They furnish opportunity by means of devotional meetings, of gospel team deputation work, of aid in Americanization work and various other

forms of community service for exercising and developing the students' capacity for Christian work. They have undertaken the financial support of a Denison representative on the mission field in West China and have recently completed arrangements with the Baptist Foreign Mission Board to assume the responsibility for supplying as many as possible of the workers needed for the West China field.

### 3. ACADEMIC

There are five literary societies—the Calliopean and Franklin, open to all the young men of Granville College, the Euterpean, Philomathean and Thalian, open to the young women of Shepardson College. The two first mentioned date back to the early days of the college and have assembly rooms of their own on the upper floor of Cleveland Hall.

The Council for Debate and Oratory is an organization which aims to promote interest in effective public speaking. It usually maintains four debating teams and arranges for contests in debate with other colleges. Instruction in debating for this purpose is provided through a regularly organized class in charge of a member of the faculty.

The student body of the University publishes a weekly newspaper, *The Denisonian*, in close co-operation with the administration. The editor is elected yearly, but other positions are filled by competition.

The Masquers. This organization exists primarily for the informal study of modern dramatic movements. At irregular intervals, the Masquers give public performances of modern plays. Membership is by competitive try-outs.

### 4. MUSICAL

The Denison Glee Club for men, the Shepardson Glee Club for women, the College Band, the University Orchestra, the Engwerson Choral Society and the chapel and church choirs furnish large opportunity for the exercise and development of the students' musical talents. (For fuller description see under Conservatory of Music. p. 79.)

### 5. RECREATIONAL

The Denison Athletic Association for men and the Shepardson Athletic Association for women enroll as their members practically all of the student body. The importance of these organizations is enhanced by the acquisition by the University of the new field, and its avowed purpose of making adequate provision for the recreational needs of all.

(NOTE—For departmental organizations see sections of the Denison Scientific Association, p. 25.)

## SCHOLASTIC AWARDS

### 1. PHI BETA KAPPA

The Phi Beta Kappa Society was founded nearly one hundred and fifty years ago for the purpose of recognizing and encouraging scholarly ideals among college students. The chapter at Denison, known as Theta of Ohio, was instituted in January, 1911, upon the granting of a charter by the Senate and National Council of the Society. New members are elected each year, principally from the seniors, but a few from the juniors, from those who have the highest standing in scholarship in their respective classes.

### 2. HONORABLE MENTION

Seniors and juniors, who have gained an excellent record for scholarship in the preceding two years, may under certain conditions carry on work for Honors in some selected department of study. The work selected for this purpose must be carried on under the supervision of the professor in charge of the department. It may consist of advanced elective courses or of special assignments, equal in amount to a 3-hour course for the year. It shall not be counted as a part of the requirements for graduation and must not interfere with the student's regular courses. Students who successfully complete such work shall have this fact stated on the records of the University, and shall receive honorable mention on Commencement Day and in the annual catalogue.

## 3. RHODES SCHOLARSHIPS

Men who have completed their sophomore year at Denison University are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of \$1500 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from any member of the Rhodes Scholarship Committee of Selection for Ohio: Chairman, President W. O. Thompson, Ohio State University, Columbus, Ohio; Professor B. E. Schmitt, Western Reserve University, Cleveland, Ohio; Cary R. Alburn, Esq., Attorney, Garfield Bank Building, Cleveland, Ohio; Secretary, Professor Leigh Alexander, Oberlin College, Oberlin, Ohio.

## 4. PRIZES

(a) The Lewis Literary Prize Contest. These prizes were given to the Franklin and Calliopean literary societies by Mr. Charles T. Lewis, former president of the Board of Trustees, and are now continued by his sons Howard Lewis and Frank Lewis of the classes of 1900 and 1902, respectively. The prizes are as follows: Forty dollars to the best debater, thirty dollars to the best orator, twenty dollars to the best essayist, and ten dollars to the best declaimer.

(b) The Samson Talbot Prize Reading. This is an endowed prize for the best reading of Scripture and is open to seniors and juniors. The prizes are \$40 and \$20 respectively.

(c) Lake Laboratory Scholarship Prize. The University offers as a prize to students in the departments of Botany and Zoology a scholarship in the State University Lake Laboratory, for the summer session following the award. This prize is awarded on the basis of general excellence in the work done in these two departments. In case two applicants seem equally meritorious two such scholarships may be offered.

(d) The Harmon Freshman Latin Prize. Ex-Governor Judson Harmon, of the class of '66, offers a prize of \$50 each year for

the best work done in Freshman Latin, the award to be made on the basis of a special examination at the end of the year.

### 5. SCHOLARSHIPS

For deserving students in need of assistance the University has at its disposal the annual income of certain funds.

Good class standing and exemplary conduct in all relations of life are prerequisite to the enjoyment of any of these scholarships. Students holding them may be called upon to render a certain amount of service to the University but never to an amount which will interfere with regular college work.

1. The Mary K. Monroe Fund, \$30,000. The income of this fund is available for ministerial students in Granville College, and in the Theological Seminaries after graduation from Denison.
2. The King Scholarship Endowment, \$12,000, for the aid of young ladies in Shepardson College.
3. The Ebenezer Thresher Fund, \$10,000, for the aid of young men of Granville College.
4. The M. E. Gray Fund, \$5,000, for the aid of ministerial students of Granville College.
5. The David and Jane Harpster Fund, \$1,500, available for students in Granville College or Doane Academy.
6. The David Thatcher Fund, \$1,500, available for ministerial students in Granville College or Doane Academy.
7. The Mary Arnold Stevens Fund, \$500, for students in Granville College or Doane Academy.
8. The Shepardson Scholarship, \$1,000, for students in Shepardson College.
9. The Luse Scholarship, \$1,000, for students in Shepardson College.
10. The Bostwick Scholarship, \$1,000, established by A. F. and A. A. Bostwick, of Seville, Ohio.
11. The Griswold Scholarship, \$5,000, the gift of the late G. O. Griswold, Esq., of Warren, Ohio.

12. The Lewis Scholarships, contributed by Charles T. Lewis, Esq., of Toledo, affording free tuition annually to two students.

13. The Doyle Scholarship, contributed by John H. Doyle, Esq., of Toledo, Ohio, affording free tuition annually to one student.

14. The Gilpatrick Scholarship, endowed by a fund contributed through the Society of the Alumni by former students and friends of the late Professor John Lord Gilpatrick.

15. The Wells A. and Cynthia Aldrich Chamberlain Scholarship, \$2,000, endowed by their sons and daughter, for the aid of students of Denison University.

16. The Edward Le Grande Husted Fund, \$1,000, endowed by Jessie Husted Chamberlain, the income to be loaned to students of Denison University.

17. The Maria Theresa Barney Fund, from which the President of the University has a varying amount at his disposal each year to be loaned to students at his discretion, without interest.

18. The Ohio Baptist Education Society has at its disposal free tuition scholarships for its beneficiaries to the number of forty, if necessary.

19. High School Scholarships. An endowed scholarship to the highest honor student (boy or girl) in the graduating class each year is offered to a selected list of secondary schools. This is worth \$50.00 for each of four years, and its use must be begun during the year of graduation.

## ADMISSION TO THE COLLEGE

### A. BY CERTIFICATE

Regularly authenticated graduates of Doane Academy are admitted to the freshman class.

The graduates of first grade high schools and approved academies are credited with their certified preparatory work without examination, so far as such work agrees with the entrance requirements of the University. Candidates prepared elsewhere than in Doane Academy must in every case present certificates or

diplomas officially signed and showing the amount of work done and credit gained in each study. These certificates should be in the Secretary's office not later than September first and January fifteenth for the respective semesters. Failure to forward credit statements causes delay in registration and may require the payment of the late registration fee. Entrance blanks will be furnished upon request.

### B. BY EXAMINATION

Applicants for admission who are not graduates of approved secondary schools may present themselves for examination in the subjects required for entrance to the freshman class. Examinations will be given on the first day of registration.

### ENTRANCE REQUIREMENTS

Fifteen units distributed as indicated below are required for entrance, and no student is admitted to freshman rank who has not completed at least fourteen units. A unit is defined as a year's course of study of a given subject, with 4-5 forty minute periods of recitation per week, in an approved secondary school.

The following  $10\frac{1}{2}$  units are prescribed for all:

English, 3	History, 1
Foreign language, 4	Science, $\frac{1}{2}$
Mathematics, 2	

2 units in at least one foreign language must be presented.

2. At least  $2\frac{1}{2}$  additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject:

English, 4	Physics, 1
Latin, 4	Chemistry, 1
Greek, 3	Phys. Geog., 1
French, 3	Botany, 1
German, 4	Zoology, 1
Spanish, 3	Physiology, 1
History and Civics, 4	Agriculture, 1
Mathematics, 3	



In this group may be included the following subjects with the respective amounts noted, upon the recommendation of the college departments specially concerned:

Bible, 1	Psychology, $\frac{1}{2}$
Economics, $\frac{1}{2}$	Sociology, $\frac{1}{2}$
Theoretical Music, 1	

3. Not more than two units may be presented from the following subjects:

Mechanical Drawing, 1	Manual Training, or Shop
Freehand Drawing, 1	Work, 1
Domestic Science, 1	Commercial Law, 1
Stenography (if a full unit), 1	Commercial Geography, 1

#### PROVISIONAL ADMISSION

Graduates of standard secondary schools who lack a portion of the prescribed units for entrance are admitted provisionally and conditioned on making up the deficiency within two years. Those who are deficient in more than two of the above prescribed units are listed as "Academy" students; if deficient in not more than two units, as "unclassified college" students; if deficient in only one unit, as "conditioned freshmen."

Entrance conditions may be removed by courses in Doane Academy, or by examination after private tutoring, or in many subjects by substituting college courses.

All entrance conditions shall be removed by the end of the second year of college residence, otherwise continued registration is denied. Likewise a determined effort approved by the registrar must be made during the first year toward clearing such conditions as a prerequisite for registration the second year.

#### VACCINATION CERTIFICATE

In order to safe-guard the health of the entire college community, each matriculant shall present at the time of his entrance to the University a *physician's certificate* showing either one suc-

cessful vaccination or two unsuccessful inoculations within ten years from date, or must agree in writing to submit to vaccination within a month after entrance into Denison University.

#### EXCESS ENTRANCE CREDIT

Application for excess entrance credit must be made at the time of matriculation and documentary evidence of the same presented within six weeks. All such credit, if allowed, is provisional upon the student's maintaining a prescribed high standard of scholarship during the year. No excess entrance credit is allowed for high school work, unless at least one semester more than four years has been spent in the secondary school; when allowed, it shall never represent more than fifty per cent of the school credit, and the maximum is ten semester hours. In cases of deficiencies in the required subjects for entrance (although a total of fifteen units is presented), a request for a limited amount of excess entrance credit partly to counterbalance the deficiency will be given consideration by the Secretary.

#### ADVANCED STANDING

Students who have completed a part of their course at other colleges may apply for admission with advanced standing. They should present a certified statement of their preparatory course, also of the work completed and the credit gained at the former institution, and a certificate of honorable dismissal. Equivalent credit will be given for the work they have successfully completed, so far as it applies to the courses at Denison, but an examination may be required, at the discretion of the Faculty.

#### REGISTRATION OF STUDENTS

New students will present themselves at the office of the Secretary on the opening day of the semester, for registration; otherwise a fee of \$5.00 is charged for late registration. In the first semester former students will defer their registration until the second day.

#### ADVISERS

Each student chooses as early as possible the department containing the line of study which he wishes to emphasize in his

course. The professor in charge of this department becomes the student's adviser in his course of study and must be consulted at each subsequent registration.

#### SUBJECTS OPEN TO FRESHMEN

Courses 1-2 in English, 1-2 or 1b-2b in Mathematics, and 1-2 in Physical Training are required of all candidates for degrees and must be taken in the freshman year. Neither subject may be deferred to a later year except with the consent of the Secretary, on recommendation of the adviser. Students competing for the degree of Bachelor of Arts will take Latin or Greek, or both, during the freshman year. Students looking forward to advanced courses in Mathematics, Physics, Astronomy or Engineering, are advised to take Mathematics 1b-2b in the freshman year, a five-hour course, rather than 1-2, a three-hour course. Students for the degree of Bachelor of Science will usually take two subjects in science during the freshman year. Students for the degree of Bachelor of Philosophy will take a foreign language in the freshman year, in addition to the common requirements.

The completion of the freshman schedule, in addition to the subjects mentioned in the preceding paragraph, will be determined by the student in consultation with his adviser. The following subjects are open to freshmen, when suited to the particular course of study upon which the student is entering:

Astronomy 1a-2a	Bible 1-2
Botany 1-2	History 1-2
Chemistry 1-2	Music 1-2 and 3-4
Civil Engineering 1-2, 4	Political Science 1-2
Physics 1-2 and 1a-2a	Public Speaking 1-2
Geology 1-2, 4	Zoology 1-2
Household Economics 1-2	

All beginning language courses are open to freshmen, or more advanced courses if the elementary work has been done in the preparatory school.

## ADDITIONAL REGULATIONS

*Normal Registration.* The average number of credit hours, estimated as 1 credit for 1 hour recitation period or 2 hours laboratory period per week during the semester, to make up the requirement of 128 credits for graduations, is 16. This is the recommended amount for students in all classes, to secure best results. The maximum allowed a new matriculant is 18 hours, and this includes 1 hour of physical training.

*Excess Registration.* For other students, more than 16 hours is *excess* and cannot be allowed except by consent of the Secretary in applying definite regulations of the Faculty. A fee of \$2.00 shall be charged for each registered hour in excess of 16. Without special permission from the Secretary's office, 13 credit hours shall be the minimum amount of registration.

*Changes in Registration.* Ordinarily no changes are allowed in registration after the registration card has been filed with the Secretary. For every change that is allowed, a fee of \$1.00 will be charged, unless remitted by the Secretary for satisfactory reason.

*Late Registration.* All students must complete their registration and settle with the Treasurer on the days set apart for this purpose. Failure to do so will be counted as late registration entailing a special fee of \$5.00.

*Dropping Work.* Work for which the student has once registered cannot be dropped except by formal permission secured through the office of the Registrar. A course abandoned without such permission will be counted as a failure and so recorded on the permanent record; likewise (under certain conditions) a course in which the student is failing, if he asks to drop the same after the first seven weeks of the semester.

*Dismissal.* Students leaving before the close of a semester will not be regarded as having honorably terminated their connection with the University unless dismissed by the President or the Secretary.

## CLASSIFICATION OF STUDENTS

*For Freshman Standing*

No student will be classified as freshman who is deficient at the beginning of the year in more than one unit of preparatory work.

*For Sophomore Standing*

All entrance deficiencies must be removed.

At least 24 hours of college work and 26 points (including English 1-2, Mathematics 1-2 (5 hours' total) and Physical Training 1-2.

*For Junior Standing*

At least 62 hours and 68 points (including Physical Training 3-4 and all preceding requirements).

*For Senior Standing*

At least 96 hours and 105 points.

## REQUIREMENTS FOR BACCALAUREATE DEGREES

The University confers the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Philosophy, upon the satisfactory completion of the respective courses of study indicated in the following paragraphs.

For convenience of reference, the various departments of study for which academic credit is allowed are grouped under two divisions, as follows:

*Division One*

Bible  
English Language and Literature  
(including Public Speaking)  
Greek Language and Literature  
History and Political Science  
(including Sociology)  
Latin Language and Literature  
Modern Languages  
Music (theoretical and historical  
courses)  
Philosophy and Education

*Division Two*

Astronomy  
Botany  
Chemistry (including Household Economics)  
Civil Engineering  
Geology and Geography  
Mathematics  
Military Science  
Physical Training  
Physics  
Zoology

**COMMON REQUIREMENTS FOR ALL BACCALAUREATE DEGREES**

All candidates for degrees must take English, courses 1-4; Mathematics, 5 hours; 6 semester credits in the department of Philosophy; 16 semester credits in Modern Language and 4 semester credits in Physical Training. The maximum credit allowed in any one department is 40 hours.

**SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR  
OF ARTS**

In addition to the common requirements, as above, the candidate must take a sequence of courses amounting to not less than 32 semester credits from the combined departments of Latin and Greek and courses for at least 10 semester credits in Division Two. Elementary Greek courses, when taken in college by students of college standing, may be counted in fulfilling this requirement. Courses offered in the Greek and Latin departments not requiring a knowledge of these languages, and Courses A and B in the department of Latin, may be counted for this requirement, but not to exceed 8 credits in all.

**SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR  
OF SCIENCE**

In addition to the common requirements (second paragraph above) the candidate must take a principal sequence of courses amounting to not less than 20 semester credits in some one of the departments listed under Division Two (third paragraph above) and a secondary sequence of not less than 12 semester credits from studies in the same Division.

**SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR  
OF PHILOSOPHY**

In addition to the common requirements (third paragraph above) the candidate must take a principal sequence of courses aggregating not less than 20 semester credits in some one of the departments listed under Division One (fourth paragraph above) and a secondary sequence for not less than 12 semester credits

from studies in the same Division, and an addition of at least 10 semester credits in Division Two. Applicants for this degree (Ph.B.) may reckon Mathematics as under Division One for either the principal or the secondary sequence.

The term "sequence," as used in the preceding paragraphs, must be so interpreted as to insure a genuine logical relation between the courses of which the sequence is composed.

#### TOTAL NUMBER OF CREDITS REQUIRED FOR GRADUATION

The granting of any of these degrees requires the completion of at least 128 semester credits of scholastic work, including 4 credits in Physical Training, the unit of credit being 1 hour per week of lecture or recitation, or 2 hours per week of laboratory work, through one semester. In addition to credits a certain standard of scholarship, estimated as "points," is required. A total of 140 "points" must be earned, being reckoned on the student's standing, as follows:

- "A" (Excellent)..... Earns 2 points per credit hour.
- "B" (Good)..... Earns 1½ points per credit hour.
- "C" (Fair)..... Earns 1 point per credit hour.
- "D" (Passing)..... Earns no points.
- "F" is a failure and course must be taken over in class.

By the close of the Spring recess previous to graduation, the candidate for a degree must have accumulated at least 110 semester credits and 112 "points," and must have paid all University bills including the diploma fee.

#### SPECIAL PRE-MEDICAL PROVISION

Any student who successfully completes all the specific requirements for the B. S. degree at Denison and all the specific requirements for admission to an A grade Medical School, with a total credit of 98 semester hours and 110 points, shall receive the B.S. degree from Denison upon successful completion of the first year's work in such A grade Medical School.

## THE MASTER'S DEGREE

Denison has no organized graduate department, but provision is made by special arrangement for a limited number of students to pursue graduate work leading to the degree of Master of Arts or Master of Science.

Admission to candidacy for the master's degree is granted only on application to the Committee on Advanced Degrees, (See Faculty Committees, p. 13), and approved by the Committee of the work to be undertaken.

The graduate work leading to the second degree must be a year's work, equivalent to 32 semester hours, taken in residence at the College. Work done at other institutions and offered toward the degree will be subject to an examination, at the option of the Committee, but at least 10 hours of work must be taken at Denison. Not more than half of this work may be taken in the undergraduate course, and the master's degree will not be conferred earlier than one year after the bachelor's degree.

The course shall consist of one major, comprising advanced work of graduate nature and amounting to at least one-half the required course, and of one or more minors, one of which is in a department of study allied to the major subject.

Ability to read one foreign language is prerequisite to all graduate courses.

Conditions regarding the thesis and the final examination may be learned by application to the Committee on Advanced Degrees.

Students in graduate courses are subject to the same tuition, incidental and laboratory fees as others. The diploma fee for the master's degree is \$10.00.

## EXPENSES

### MATRICULATION FEES

For students entering as Freshmen.....	\$ 2.00
For students entering as Sophomores.....	3.00
For students entering as Juniors.....	4.00
For students entering as Seniors.....	5.00
For students entering as Graduates.....	5.00

This fee is remitted in case of graduates from Doane Academy.



## TUITION AND GENERAL FEES

Tuition, per semester.....	\$25.00
Incidentals, per semester.....	25.00
Athletic Ticket (optional with Shepardson Students).....	2.50
"The Denisonian".....	1.25
Tuition in Conservatory of Music, (See page 80).	

## DIPLOMA FEES

Bachelor's Degree.....	\$ 5.00
Master's Degree.....	10.00

## EXTRA CHARGES FOR CERTAIN COURSES

The fees indicated below are in all cases for a single semester. In some cases the fee is not a fixed amount, but depends upon special circumstances. Such cases are not included in this table.

ASTRONOMY	Course.....	2a.....	\$ 2.00
		4.....	2.00
BOTANY	Course	1.....	\$ 3.00
		2.....	3.00
		3.....	3.00
		4.....	3.00
		5.....	4.00
		6.....	4.00
		7.....	4.50
		8.....	4.50
		9.....	1.00
		10.....	1.00
		11.....	2.00
		12.....	2.00
		17.....	1.00
		18.....	1.00

## CHEMISTRY

Course	1—\$6.00	2—\$6.00 (or \$9.00)
	5— 6.00 (or \$9.00)	6— 6.00 (or 9.00)
	9— 5.00	10— 5.00
	11—Consult Instructor	12—Consult Instructor
	13—Consult Instructor	14—Consult Instructor
	15— 6.00	16— 6.00
	17—No fee or deposit	18—No fee or deposit
	19—Consult Instructor	20—Consult Instructor
Deposit, or breakage ticket, for each course unless specially mentioned, \$4.00.		

CIV. ENGINEERING COURSE	1.....	\$ 1.00	2.....	\$ 1.00
	3.....	1.00	4.....	2.00
	5.....	2.00		
	9.....	1.00	10.....	1.00
			12.....	2.00

GEOLOGY	Courses 1, 2, no fee.	
	Other courses, each.....	1.00

HOUSEHOLD ECON. Course	1.....	\$15.00	2.....	\$15.00
Sewing.....				12.00

MUSIC	5, 6, 7, 8, 9 or 10.....	12.00
	11, 12, 13, 14, 15 or 16.....	8.00
	1, 2, 3 or 4 (except to students paying regular college tuition)	8.00

Pianoforte, Voice, Organ or Violin (no college credit.)

Two private lessons per week.....	40.00
One private lesson per week.....	22.00

PHYSICS	Course	1a.....	2.00	2a.....	2.00
		3.....	3.00	4.....	3.00
		5.....	3.00	6.....	3.00
		9.....	3.00	10.....	3.00

ZOOLOGY	Courses 1, 2, 3, 4, per credit hour.....	\$ 1.25
	5, 6, no fee.	
	All other courses per credit hour	1.25

#### BOARD AND ROOMS

Shepardson College	Room.....	\$45.00
	Board in Commons.....	90.00
Granville College	Room.....	20.00 to 30.00 for each student.

Board is not furnished to young men by the College. Students of Granville College must make private arrangements for their meals.

Semester Bills, including dormitory room-rent (and board in case of Shepardson students) are *payable in advance*. All payments, even if deferred by permission of the Dean, must be completed by December first and April fifteenth in the respective semesters, in order to avoid suspension from classes.

#### SPECIAL FEES

*Excess Registration.* For conditions and amount, See page 36.

*Partial Registration.* Students taking less than 10 hours per week will be charged as follows: \$5.00 per semester hour; \$2.50 for athletic ticket (optional with women); \$1.25 for "The Denisonian". See exception in Conservatory (p. 80).

Students in Granville and Shepardson Colleges taking part of their work in Doane Academy pay no extra charge for that work unless it makes the total number of hours exceed 18 per week.

Doane Academy students taking one or more studies in college will pay regular college semester bills.

*Late Registration.* See page 36.

*Special Examinations.* A fee of \$2 will be charged for special examination caused by absence from the regular examination, or for a re-examination in any study.

*Refunding Semester Bills.* All registrations are for an entire semester and no money is refunded to a student who leaves before the end of the semester, with the following exceptions: A college student leaving during the first half of the semester, and regularly dismissed will pay for the time of his actual enrollment at the rate of \$5.00 per week, counting from the first of the semester to the date of dismissal. The remainder of the semester charges will be refunded, athletic and Denisonian fees being adjusted.

#### REGULATIONS RESPECTING DORMITORIES

*Men's Dormitories.*—Rooms for men in the dormitories may be secured on application to the Treasurer, by paying a retaining fee of \$5.00 on or before August 1. If the room is occupied, this

fee will be held subject to the rules and regulations governing the use of the dormitories; otherwise it is forfeited.

No room can be secured for a shorter time than one semester. If a room is vacated for any cause before December 1 of the first semester, or before April 15 of the second, only one-third of the room rent will be refunded. No rent will be refunded after these dates.

Rooms are in suites comprising sitting-room and bed-room (except single rooms for one person) and are supplied with dresser, bookcase and chairs, single iron bedstead, mattresses and springs. Bedclothing and towels are provided by the student. The rooms are lighted by electricity and heated by hot water, and are in close proximity to lavatories on the same floor, where shower baths are provided, with hot and cold water.

*Women's Dormitories.*—Rooms are provided for young women on the Shepardson College Campus in Burton Hall, King Hall and Stone Hall. Until the erection of other residence halls, additional room is secured in cottages owned or leased by the college in the immediate vicinity of the college grounds. Rooms may be secured by paying a retaining fee of \$5. This fee is credited on the room rent if the room is occupied; otherwise it is forfeited.

Ample lavatories are provided on each floor, which have baths with hot and cold water. Single iron bedsteads, mattresses, springs and rugs are provided in all rooms. All rooms and halls are lighted by electricity and heated by hot water. All bedding and toilet appliances are furnished by the students, whether in dormitories or cottages. Breakage or other damage to furniture of rooms is charged to the occupants.

*Refunding of Charges.*—Ordinarily no rebate can be made in the room rent of women, but to students leaving on regular dismissal before December 1 of the first semester, or April 15 of the second, a rebate is granted of \$3.00 per week on board for the remainder of the semester. No rebate is granted after these dates.

## STUDENT EMPLOYMENT

A limited amount of remunerative employment is furnished by the University, including stenography, typing, mimeographing and other office work, library and laboratory and departmental assistance, messenger and telephone service, hall duty, janitor and carpenter and farm work. A well regulated wage scale is administered. A total of about \$25.00 per semester is usually possible for new students. Apply to the Student Aid Committee for such employment.

## Departments and Courses of Instruction

The following pages contain a statement of the courses offered in all the departments of instruction in the College. The departments appear in alphabetical order. The odd-numbered courses are given in the first semester, the even-numbered in the second semester. The title and general character of each course are given, followed by a statement of the prerequisite subjects. The Roman numerals indicate the period in the daily schedule at which the class meets and the hours refer to the units of credit for the course. For a tabular view showing the schedule of days and hours when each course is given, see insert at end of Catalogue.

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### ASTRONOMY

PROFESSOR BIEFELD

The courses are planned with reference to their cultural value and to their forming a sound basis for further study in the science.

1a. ELEMENTARY ASTRONOMY. Four recitations a week based upon study of a text with one hour a week (needing no preparation on the part of the student) on Tuesday or Thursday, 8-9 p. m., for constellation study and the demonstration of instruments. No prerequisite. VI, 4 hours.

2a. ELEMENTARY PRACTICAL ASTRONOMY. This course introduces students who have had course 1a or its equivalent, and engineering students who wish to supplement their surveying course, to the use of the instruments in solving practical astronomical problems in an elementary way. Prerequisite, 1a (or Freshman Mathematics, and C.E.4) Fee, \$2.00, with laboratory hours to be arranged. VI, 4 hours.

3. DESCRIPTIVE ASTRONOMY. A standard text is used together with lantern slides and demonstration of the instruments of the observatory. Prerequisite, Freshman Mathematics, General Physics, 1-2 is advised. III, 4 hours.

4. PRACTICAL ASTRONOMY. This is a laboratory course for the solving of astronomical problems with the precision that the modern instruments of the observatory allow. Prerequisites, Astronomy 3 and Physics 3. Fee, \$2.00. III, 4 hours.

6. METHOD OF LEAST SQUARES. Advised for student taking Astronomy 4. Hours to be arranged. 2 hours.

7-8. **ADVANCED OBSERVATIONAL WORK.** Measurement of double stars and position of celestial objects differentially with position micrometer. Stellar Photometry with naked eye and wedge photometer. Prerequisite, Astronomy 3. Hours to be arranged. 3 hours.

9-10. **INTRODUCTION TO CELESTIAL MECHANICS.** A standard text is used taking up the fundamental principles of the subject. Application to determination of ephemerides and orbits of planets and comets. Prerequisite, Astronomy 3 (may be taken the same time as 9) and the Calculus, including, preferably, an introduction to Differential Equations. IV, 3 hours.

## BIBLE

ASSISTANT PROFESSOR DETWEILER

ASSISTANT PROFESSOR HOUF

1. **ANCIENT ISRAEL.** The historical books of the Old Testament considered as sources for the study of Israel's social, religious, and literary development. Large use is made of the Bible text itself. Open to all. IV, 3 hours.

2. **LIFE OF JESUS.** A study of Christian beginnings in which the greater part of the time is spent on the life of Jesus. Open to all. IV, 3 hours.

3. **TRAINING FOR RELIGIOUS WORK.** Religious education and related methods of church work are studied both in theory and in the practice of actual service. Open to students above freshman rank with the consent of the instructor. II, 3 hours.

4. **THE SOCIAL MESSAGE OF THE BIBLE.** The teachings of the prophets and of Jesus form the material for this course. The idea of the Kingdom of God is used throughout to give unity. Open to students above freshman rank and freshmen who have had Bible I. II, 3 hours.

## BOTANY

PROFESSOR STICKNEY

MR. MOORE

The work in botany is designed not only for the systematic development of that branch of science for the benefit of students who wish either to teach or in any other way devote themselves professionally to it, but also and more particularly to emphasize, through systematic training in observation and deduction, the broader and purely cultural side of the subject.

1-2. **GENERAL BIOLOGY.** Introductory to all other courses in the department, and designed also for students in other departments who desire a general acquaintance with biological laws and theories. A general consideration of living organisms and life processes, and a study of the origin of individuals and races through reproduction and evolution. The course does not follow the lines of elementary botany of secondary schools and is designed equally for those entering

with or without such course. Three credits. Fee \$3.00. Lectures and quiz Tuesday and Thursday, 10.30. Laboratory, two sections, Monday or Wednesday 9.30-11.30.

3-4. PLANT MORPHOLOGY. A very general survey of the plant kingdom, with a study of type forms from the lowest to the highest orders. One all-day field trip and several shorter excursions each semester. Alternates with courses 5-6. Prerequisite, Botany 1-2. Fee \$3.00. Four credits. Offered in 1921-22.

III, 4 hours, and IV 2 hours.

5-6. PLANT HISTOLOGY AND PHYSIOLOGY. The study of cells, tissues and organs of higher plants, and of the relation of these structures to life processes. Special attention is given to the technique of microscopic study during the first semester, and to experimental methods during the second. Alternates with courses 3-4. Four credits. Prerequisite, Botany 1-2. Fee \$4.00. Not offered in 1921-1922.

III, 4 hours, and IV, 2 hours.

7-8. BACTERIOLOGY. An elementary course, introducing the student to the nature and activities of bacteria, and to the technique and methods of bacteriological study. Elementary chemistry is advised in addition to Botany 1-2, the regular prerequisite for this course. Three credits. Fee \$4.50. I-II, 3 hours.

9. PLANT PATHOLOGY. A study of the more important diseases of useful plants, their recognition through symptoms, and methods of control. The work of state and national governments in this connection is emphasized in thesis work. Alternates with course 11. Prerequisite, Botany 1-2. Two credits. Fee \$1.00. Offered in 1921-1922.

VI-VII, 2 hours.

10. FORESTRY. An introductory consideration of the forest as an economic resource, and of the more important problems dealing with protection and utilization of the forest. Field trips to forested areas within reach form a part of the laboratory work. Alternates with course 12. Two credits. Prerequisite, Botany 1-2 or a course in elementary botany. Fee \$1.00. Offered in 1921-1922.

VI-VII, 2 hours.

11. GENERAL BOTANY. A general account of the higher flowering plants, based on Ganong's college text. Designed to meet the needs of students who wish to cover intensively the formal course in elementary botany, either as an introduction to the subject or with a view to teaching. Alternates with course 9. Three credits. Fee, \$2.00. Not offered in 1921-1922.

VI-VII, 3 hours.

12. SYSTEMATIC BOTANY. The classification of the flowering plants, and the identification of native wild flowers in field and laboratory. Attention given to methods of collecting and preserving plants, and the making of herbaria. Four all-day field trips and several shorter excursions take the place of a part of the laboratory work. Alternates with course 10. Three credits. Fee, \$2.00. Not offered in 1921-1922.

VI-VII, 3 hours.



14. **BACTERIOLOGY OF DISEASE.** A lecture course dealing with germ diseases, from the standpoint of personal and public hygiene. The nature of pathogenic bacteria and their toxins, modes of infection, disease resistance and immunity, and the use of protective and preventive measures. Two credits. Open to general election. II, 2 hours.

17-18. **BOTANICAL SEMINAR.** The study of special topics with reports in class upon assigned readings. Either or both semesters may be taken. Ability to use French or German is desirable. Open to juniors and seniors only. Prerequisite, Botany 1-2 and an additional year's work in the department. Two credits. Hours to be arranged. Fee, \$1.00.

19-20. **ADVANCED BOTANY.** Special work on assigned problems leading to research in botany. This course may be taken only by competent students, and with consent of the head of the department. Two to five credits. Hours arranged individually.

## CHEMISTRY

PROFESSOR EBAUGH

ASSISTANT PROFESSOR EVERHART

Courses in this department are intended to provide students with a broad foundation in the science and its applications, to develop their skill in laboratory technique, and to train them in habits of accuracy of thought and expression.

Chemistry 1-2 is a fundamental course open to all students and is required of students who expect to specialize in engineering, medicine, nursing, home economics and allied subjects.

1. **GENERAL CHEMISTRY.** (Non-metals). Principles and theories of chemistry, the quantitative aspect of the subject and the solution of problems in chemical arithmetic. It is recommended that a student complete a course in elementary chemistry or physics as a preparation for Chemistry I. Fee, \$3.00 per hour of laboratory credit, and breakage deposit, \$4.00. Section A; recitation or lecture Monday and Wednesday, II period, laboratory Tuesday and Thursday, I and II period. Section B: recitation or lecture Tuesday and Thursday, VII, laboratory Monday and Wednesday, VI and VII. Section C: recitation or lecture Tuesday and Thursday, IV, laboratory Wednesday and Friday, III and IV. 4 hours.

2. **GENERAL CHEMISTRY.** (Metals and Qualitative Analysis.) A continuation of Chemistry 1. The close connection between chemistry and industry is emphasized. Common blowpipe tests, reactions of metallic and non-metallic ions, and the analysis of mixtures of increasing difficulty. Prerequisite, Chemistry 1. Fee, \$3.00 per hour of laboratory credit, and breakage deposit, \$4.00, four or five credits. Sections and hours as in Chemistry 1.

5-6. **QUANTITATIVE ANALYSIS.** Simple salts, alloys, minerals, ores, etc., are analyzed. Acidimetry, alkalimetry, volumetric methods of various kinds, and the application of electrolysis receive attention. Constant drills in chemical calculations and underlying theories. Prerequisites, Chemistry 2 (as outlined above). Fee, \$3.00 per hour of laboratory credit, and breakage deposit, \$4.00 per course. Recitation, Monday IV, laboratory, Monday and Wednesday, VI and VII. 3 hours.

9-10. **ORGANIC CHEMISTRY.** A study of carbon compounds is accompanied by the preparation of typical organic substances, determination of physical constants and chemical properties, and practice in the use of tests employed in special branches of chemistry. Prerequisite, Chemistry 2. Fee, \$5.00 per hour of laboratory credit, and breakage deposit, \$4.00 per course. Lecture or recitation Monday and Wednesday, I period, laboratory, Friday, I and II. 3 hours.

11-12. **CHEMICAL PREPARATIONS.** Methods of preparation employed in organic and inorganic research. Open only to juniors and seniors who have completed two years' work in chemistry. Fees, credit and hours to be arranged.

13-14. **ADVANCED QUANTITATIVE ANALYSIS.** Special methods of analysis in the following groups: (a) mineral and ore analysis, (b) water analysis, (c) gas analysis, (d) foodstuff analysis, (e) metallurgical analysis, (f) technical analysis for specific industries. Prerequisites, Chemistry 6, and for (d) Chemistry 10. Fees, credit and hours to be arranged.

15. **PHYSICAL CHEMISTRY.** Modern theories of solution, dissociation, chemical equilibrium, thermochemistry, etc. Prerequisites, Chemistry 6 and 10. Physics 4 and Calculus. First semester, three credits. Fee, \$3.00 per hour of laboratory credit, and breakage deposit, \$4.00.

16. **ELECTROCHEMISTRY.** The historical and theoretical development of the subject and the application of the current to analysis, refining of metals, preparation of organic and inorganic chemicals. Prerequisites, Chemistry 6 and Physics 4. Fee, \$3.00 per hour of laboratory credit, and breakage deposit, \$4.00.

17-18. **HISTORY OF CHEMISTRY.** Prerequisite, Chemistry 10. Hours to be arranged.

19-20. **RESEARCH.** Opportunities for research work in chemistry are offered to advanced students. Prerequisites, Chemistry 6 and 10, and Physics 4. Fees, credit, and hours to be arranged.

NOTE—For courses in Foods, see Household Economics 1-2.

## CIVIL ENGINEERING

PROFESSOR T. S. JOHNSON

The courses offered in this department are designed to cover the work of the first three years of civil engineering courses as offered in the technological schools, emphasizing the need of a

thorough training in the fundamentals of science and mathematics, a broad cultural training along with the technical training.

1. MECHANICAL DRAWING. Elementary and advanced drawing. Prerequisite, preparatory mathematics. Fee, \$1. Students may register for two, three or four hours. I and II, 2 hours; VI and VII, 2 hours.

2. MECHANICAL DRAWING. A repetition and continuation of course 1. Second semester. Hours, fees, and credits as for course 1.

3. DESCRIPTIVE GEOMETRY. Problems in the point, line, and plane, warped developed surfaces, intersections and patterns. Prerequisite, Civil Engineering 1 or 2. Fee, \$1.00. III, 4 hours.

4. PLANE SURVEYING. Field and class-room work. Prerequisite, Civil Engineering 1 and Mathematics 1 or 1b. Fee, \$2. During twelve weeks of the semester field work requires six hours per week with one hour of recitation. VI, 4 hours.

5. RAILROAD SURVEYING AND EARTH-WORK. Reconnaissance, preliminary location, and cross-section surveys. Maps and profiles are plotted, earth-work computations made and problems in transition curves and turnouts are assigned. Prerequisite, course 4. Fee, \$2. (Periods for field work will be at 9 a. m., unless otherwise arranged.) I, 4 hours.

6. RAILROAD ENGINEERING AND ECONOMICS. Study of the economic theory of railroad location, locomotive operation, train control, locomotive rating, with additional problems of railroad location and construction. Prerequisite, course 5. I, 4 hours.

7. APPLIED MECHANICS. The principles of mechanics with reference to their application to engineering. Prerequisite, Mathematics 3b-4b, and Physics 1. Physics 3 should precede or accompany the course. IV, 4 hours.

8. APPLIED MECHANICS. Strength of materials, and their action under bending, torsion, and shear, with studies in beams, columns, slabs and hooks, and analysis of stress in simple structure. Prerequisite, course 7. IV, 4 hours.

9. ANALYSIS OF STRUCTURES. Determination of working stress in roof and bridge trusses, arches, dams and other structures, by analytical and graphical methods. Prerequisite, course 8. Fee, \$1.

VI, 4 hours with two drawing periods to be arranged.

10. STRUCTURAL DESIGN. A continuation of course 9. The design of roof and bridge girders and trusses, arches and other structures, with preparation of drawings for the same. Prerequisite, course 8 and 9. Fee, \$1.

II, 2 hours with two periods to be assigned, 4 hours.

12. MATERIALS OF CONSTRUCTION. Study of cement, wood, steel, iron, and concrete. All the routine tests of cement will be made in the laboratory. Fee, \$2.

III, 4 hours.

13. **HIGHWAY ENGINEERING.** Methods of surveying, construction, repair and maintenance of roads and streets. Prerequisite, courses 1 and 4. II, 2 hours.

15. **PUBLIC WATER SUPPLIES.** Collection, purification and distribution of water. Prerequisite, Chemistry 1-2 or 3-4, and Civil Engineering 4. VI, 3 hours

16. **SEWERAGE SYSTEMS AND SEWAGE DISPOSAL.** Continuation of course 15. Collection and disposal of public wastes, design of sewers and disposal plants. Prerequisite, course 15. VII, 3 hours.

## ENGLISH LITERATURE AND RHETORIC

PROFESSOR WILLIAMS

PROFESSOR MC CUTCHEON

ASSISTANT PROFESSOR MACNEILL

ASSISTANT PROFESSOR DICKERMAN

ASSISTANT PROFESSOR SHUMAKER

MISS TAYLOR

Students whose major work is in this department, in addition to the regular requirements for all degrees, will elect a minimum of twenty hours from the courses in English and Public Speaking. Among these courses should be included English 5, either English 9 or 13, and either English 11 or 17.

The following courses are given:

1-2. **FRESHMAN ENGLISH.** Recitations, themes, conferences, and the study of modern prose writers. Required for all degrees.

Sections at periods I, II, III, IV, and VII, 3 hours.

NOTE—Students who are found deficient in preparation for this course will be placed in special sections where they may make up their deficiencies. No college credit is given for work in such sections.

3-4. **ENGLISH LITERATURE.** Lectures on special topics, with careful study of a number of classics, and written reports on selected readings. Required for all degrees. Prerequisite, English 1-2.

Sections at periods II, III and VII, 3 hours.

5-6. **SHAKESPEARE.** Three plays are carefully studied each semester and other plays are assigned for reading. Prerequisites, courses 1-4. Course 5 must precede 6. I, 2 hours, Dr. Williams.

7. **MILTON.** Extensive reading in Milton's verse and prose, and in the history of the forms used by Milton. Prerequisite, English 1-4.

IV, 3 hours, Mr. McCutcheon.

8. STUDIES IN THE ROMANTIC MOVEMENT. The beginnings and the nature of Romanticism. Some attention will be given to the French and German literature of the period, as well as to the English. Prerequisite, English 1-4. Given in 1922-1923. IV, 3 hours.
9. PROSE FICTION. Bliss Perry's *A Study of Prose Fiction*, supplemented by selected readings and lectures. Prerequisite, English 1-4. IV, 2 hours, Dr. Williams.
10. LATER AMERICAN WRITERS. Pattee's *A History of American Literature Since 1870*, selected readings, and lectures. Prerequisite, English 1-4 and 9. IV, 2 hours, Dr. Williams.
11. ANGLO-SAXON. Bright's *Anglo-Saxon Reader*, with special study of the phonology of the language in its historical relations to German and English. Prerequisite, English 1-4. III, 3 hours, Mr. McCutcheon.
12. THE ENGLISH CRITICAL ESSAY. An extensive reading course in the critical essay, with reference to the history of the form, the periodical essay, and present tendencies in criticism. Prerequisite, English 1-4. IV, 3 hours, Mr. McCutcheon.
13. THE DEVELOPMENT OF THE ENGLISH DRAMA, from the dramatic tropes to Shakespeare. Tatlock and Martin's *Representative English Plays*. Prerequisite, English 1-4. III, 2 hours, Dr. Williams.
14. THE LATER ENGLISH DRAMA, from Goldsmith to the present time. Lectures, selected readings, and a careful study of a number of representative plays. Prerequisite, English 1-4, and 13 or 5. III, 2 hours, Dr. Williams.
15. TECHNIQUE OF THE SHORT STORY. Critical analysis of the best modern writers, and original work. Prerequisite, English 1-2. II, 2 hours.
16. THE TEACHING OF ENGLISH. A course for those who expect to teach English in high schools. Designed especially for juniors and seniors. VII, 2 hours, Mr. Shumaker.
17. MIDDLE ENGLISH. Special attention to Chaucer and the development of the language. Prerequisite, English 1-4. Given in 1922-1923. III, 3 hours.
18. ADVANCED THEME WRITING. A course dealing especially with exposition. Special attention is given criticism of original themes. Prerequisite, English 1-4. The class will meet two hours a week. The credit hours depend on the actual amount of work done by each student, varying from a minimum of 2 to a maximum of 4. II, 2 hours, Mr. McCutcheon.
20. BROWNING. An intensive study of the shorter poems, together with the reading of selected longer poems. The poet's relation to his age and his contribution to the thought and spirit of his time will be given special attention. Open to juniors and seniors. III, 3 hours, Miss MacNeill.

21-22. **NEWS WRITING.** The course will cover the writing of news articles, the methods of obtaining news, and the journalistic principles of selection. Practice in typewriting will be given. Open to juniors and seniors who have taken English 1-4, and to others upon consultation with the instructor.

VI, 3 hours. Mr. Dickerman.

23-24. **EDITING.** Primarily copy desk work, leading up to the work of assistant city editor, telegraph editor, and feature editor. Practical exercises in editorial writing and dramatic criticism. Prerequisite, English 21-22.

VII, 3 hours. Mr. Dickerman.

25. **SOURCES OF THE ENGLISH POETICAL TRADITION.** According to the method of comparative literature, the course will trace to their origins the confluent tributaries which have united to form the stream of English poetry. With English 26, the course will form a general survey of English poetry. Prerequisites, English 1-4, elementary French.

VI, 2 hours. Mr. Dickerman.

26. **VERSIFICATION.** Lectures on the theory, history and technique of English poetry. Some experimentation in verse forms may be required. A reading knowledge of either French or Italian is required. The course is a natural sequel to English 25, but may be elected separately. Prerequisites, English 1-4.

VI, 2 hours. Mr. Dickerman.

**ARGUMENTATION.** A course in argumentation (Philosophy 7) is offered by Professor Spencer, and is described under the department of Philosophy.

## GEOLOGY

PROFESSOR MATHER

The natural surroundings of Denison are peculiarly favorable for the study of all phases of Geology. The aim of the courses in the department is twofold: to contribute toward a liberal training, and to provide for specialization in geology and geography. Course 4 is recommended for those who can take but one semester's work. Students specializing in Geology should take a year's work each in Chemistry and Physics.

1. **GEOLOGICAL PROCESSES.** The materials and features of the earth, their origin and processes of alteration; the agencies involved—streams, glaciers, atmosphere, etc. Recitation and laboratory work with occasional field trips on Saturday.

III, 4 hours.

2. **HISTORICAL GEOLOGY.** An outline of the history of the earth and its inhabitants, with special reference to the continent of North America. Recitation and laboratory work with occasional field trips on Saturday. Prerequisite, Geology 1.

III, 4 hours.

3. MINERALOGY AND PETROLOGY. The common minerals and rocks; their identification, origin, and occurrence; the field classification of igneous rocks; sedimentation and the sedimentary rocks. Prerequisite, Geology 1 and 2. First semester in alternate years. IV, and two additional laboratory hours to be arranged. Fee, \$1.00. (Offered in 1921-1922.) 3 hours.

4. GEOGRAPHIC INFLUENCES. Lectures, supplemented by library assignments, considering the influence of topographic and climatic environment upon human affairs; two specific illustrations of the principles thus set forth; prehistoric man and his environment, and geographic factors in the World War. Fee, \$1.00. I, 2 hours.

5. NORTH AMERICA. Lectures, discussions and assigned readings concerning the relief features and natural resources of the continent, their influence upon the history and industries of its inhabitants. Prerequisite, Geology 1 and 2. Fee, \$1.00. Offered in alternate years. (Omitted in 1921-1922.) IV, 3 hours.

6. ECONOMIC GEOLOGY. Ore deposits; their genesis, geologic relations, alterations, and distribution; non-metalliferous deposits, coal, petroleum, natural gas, salt, potash, etc. Prerequisite, Geology 1, 2, and 3. Offered in alternate years. (Offered in 1921-1922.) IV, 3 hours.

7. INVERTEBRATE LIFE DEVELOPMENT. The origin of life upon the earth; the succession of invertebrate faunas. Fee, \$1.00. Prerequisite, Geology 1-2, Botany 1-2 or Zoology 1-2. I, 3 hours.

8. VERTEBRATE LIFE DEVELOPMENT. The origin and evolution of the vertebrates; historical geology studied on the life side. Fee, \$1.00. Prerequisite, Geology 7. I, 3 hours.

9. ANTHROPOLOGY. Primitive man and his environment. The "Stone Age" in Europe and Asia. Pre-Columbian civilization in America. (Not open to freshmen.) I, 2 hours.

10. PETROLEUM GEOLOGY. This course is intended to serve as an introduction to the technique of the petroleum geologist as developed in plane-table mapping and reconnaissance surveys. It will also include a review of the oil and gas fields of North America. Prerequisite: Geology 1-2, and Civil Engineering 4. Second semester in alternate years. (Omitted in 1921-1922.) IV, 3 hours.

11-12. GEOLOGIC INVESTIGATION.

13-14. GEOGRAPHIC INVESTIGATION.

15-16. PALEONTOLOGIC INVESTIGATION.

Open to seniors. Students should not register for these courses without consultation with the professor in charge. Fee, \$1.00 per hour of credit sought. Hours to be arranged. 2-5 hours.

## GREEK

PROFESSOR TANNER

MISS AKERS

MISS EMMERSON

The courses are planned to meet the needs; first, of those who without a knowledge of the language wish to become acquainted with the life and thought of the Ancient Greeks and their contributions to modern civilization; second, all pre-divinity students who need a knowledge of Greek for a more accurate understanding of the New Testament; third, all students who desire a knowledge of Greek literature as a preparation for post-graduate and professional work. The advanced courses in Secular Literature are in a three year cycle, thus making it possible for students to cover the whole field in three years after the laboratory work.

## FOR STUDENTS WHO DO NOT STUDY THE LANGUAGE

A. THE ORIGIN OF THE GREEK CIVILIZATION. Brief study of the achievements of men before the appearance of the Greeks, with especial attention to the development of the Cretan and Aegean civilizations. Open to all students, first semester. (Offered in 1922-1923.) III, 3 hours.

B. GREEK CIVILIZATION OF THE FIFTH CENTURY. A topical study of the different elements of Greek civilization during its best period; lectures, readings and reports. Open to all students, second semester. (Offered in 1922-1923.) III, 3 hours.

C. THE GREEK DRAMA. Reading and study of the best translations of representative dramas of the Ancient Greeks. Open to all students, first semester. (Offered 1921-22.) III, 3 hours.

D. THE GREEK THEATER. Development of the theater and scenic antiquities; collateral reading in translations of selected dramas; critical study of one tragedy from the point of view of its production. Open to all students, second semester. (Offered in 1921-22.) III, 3 hours.

## FOR STUDENTS OF THE LANGUAGE

L. THE GREEK LABORATORY. The Laboratory method is used for the first two years of the instruction in Greek. The courses comprise the elements of Greek Grammar, the translation of selected portions of Xenophon's *Anabasis* and Homer's *Iliad*, composition exercises and reading at sight. In connection with the *Iliad* attention is given to dialect and meter, the development of epic poetry, and life in the time of Homer. Students may begin these courses in either semester.



They will ordinarily register for 8 laboratory hours per week, with hours to be arranged with the instructor on registration day. No student may register for less than 6 laboratory hours per week without special permission from the Head of the Department. A maximum credit of 20 semester hours may be earned in the two years. *At least 14 semester hours must be presented as a prerequisite for the advanced courses.*

5. GREEK TRAGEDY. Sophocles' *Antigone*; Euripides' *Iphigenia among the Taurians*; collateral reading in Lucian; structure of the Greek tragedy; lectures on the origin and development of tragedy. Hours to be arranged. (Offered 1921-22.) 3 hours.

6. THE GREEK THEATER. Development of the theater and scenic antiquities studied from the best modern works and from the ancient sources; collateral readings in the drama; lectures, conferences and reports. Hours to be arranged. (Offered 1921-22.) 3 hours.

7-8. NEW TESTAMENT. Rapid reading in the Gospel and Epistles; study of the philology and interpretation of the portions read. (Offered 1921-22.) III, 2 hours.

9. NEW TESTAMENT. Selections from the Acts, Epistles and Revelation; philology and interpretation. (Omitted in 1921-1922; offered in 1922-1923.) III, 2 hours.

10. CHURCH FATHERS. Selections from the Greek Church Fathers; early development of Christianity after the time of the New Testament writers. (Omitted in 1921-1922; offered in 1922-1923.) III, 2 hours.

11. PHILOSOPHY. Plato's *Apology* and *Cratylus*. Xenophon's *Memorabilia*, collateral reading in other dialogues of Plato, lectures on development of Greek philosophy. Hours to be arranged. (Offered in 1923-1924.) 3 hours.

12. HISTORY. Herodotus and Thucydides; Selections and collateral readings, Plutarch, Pericles; brief résumés of the principal events in Greek history; critical study of the age of Pericles. Hours to be arranged. (Offered in 1923-1924.) 3 hours.

13. ORATORY. Selections and collateral readings from the Attic orators. Study of the development of Greek oratory. Hours to be arranged. (Offered in 1922-1923.) 3 hours.

14. HOMER. Selections and collateral readings from the *Odyssey*. Study of life in the age of Homer. Lectures on the Homeric question. Hours to be arranged. (Offered in 1922-1923.) 3 hours.

## HISTORY AND POLITICAL SCIENCE

PROFESSOR LATOURETTE

ASSISTANT PROFESSOR DETWEILER

ASSOCIATE PROFESSOR BEYLE

MR. OWEN

## HISTORY

Students whose major subject is History should advise with Prof. Latourette.

1-2. **MEDIEVAL AND MODERN EUROPE.** Introductory Course. General survey of European history from the decline of Rome to the present time. The first semester is spent in a rapid survey of medieval and early modern Europe. The second is devoted to Europe since 1789. Three sections. I, III, VII, 3 hours. Freshmen should register for the 9:30 or 2:30 section. Others register for the 7:30 sections, unless otherwise arranged with the instructor. This is the only history course open to freshmen.

3-4. **THE DEVELOPMENT OF AMERICAN LIFE.** This course covers the political, economic, religious, educational, and social history of the United States from 1789 to the present time. Prerequisite, History 13 or a high school course in American History. Not open to freshmen. III, 3 hours.

6. **ENGLISH HISTORY.** General course, from the Saxon period to the present time, of special value to students of law and English literature. 4 hours.

7b. **EUROPE FROM THE EVE OF THE FRENCH REVOLUTION TO 1870.** Prerequisite, Course 1-2 or a high school course in Medieval and Modern Europe. I, 3 hours.

8b. **EUROPEAN LIFE AND PROBLEMS.** Political development in Europe from 1870 to the present time; events leading up to the World War; the World War; economic, social, religious, and intellectual development; current events followed through standard periodicals. Prerequisite, courses 1-2, or the consent of the instructor. II, 3 hours.

10a. **THE FAR EAST.** A general survey of the development of India, China, and Japan, particularly the last two. The chief emphasis is placed on the period beginning with the contact with the West. Not open to freshmen. IV, 3 hours.

11. **THE EXPANSION OF CHRISTIANITY SINCE THE REFORMATION.** Brief survey of the extent of Christianity in the 16th century, followed by a study of the spread of Protestant, Roman, and Greek Communions in the succeeding, especially the 19th and 20th centuries. Not open to freshmen. IV, 3 hours.

13. **THE BEGINNINGS OF AMERICAN LIFE.** The age of discovery, the settlement and development of the thirteen colonies, the Revolutionary War, and the period of the Confederation. Not open to freshmen. II, 3 hours.

14. **LABORATORY COURSE IN CURRENT EVENTS.** A careful study is made of the chief topics of contemporary interest based upon the best newspapers and the weekly and monthly periodicals of this country and England. The object is to familiarize the student with present day problems and to train him in a critical analysis of the various sources of information and public opinion. Prerequisite, courses 1-2 and 7b-8b. I, 3 hours.

15-16. **HISTORICAL SEMINAR.** It is the object of this course to train students in historical method and original research. Admission is restricted to those who are taking a major sequence in the department and requires the consent of the head of the department. The field covered will be determined by the special interests of the student taking the course. Either the first or second semester. Hours to be arranged. 2 hours.

17. **THE ANCIENT WORLD.** From the dawn of civilization to the fall of Rome; the ancient monarchies of the Mediterranean and Western Asiatic world, also those of central, southern, and eastern Asia. Not open to freshmen. II, 3 hours.

18. **MEDIEVAL EUROPE.** A careful study of Europe from the fall of Rome to the age of discoveries. Prerequisite, History 1-2, or a high school course in Medieval and Modern Europe. 3 hours.

20. **LATIN AND BRITISH AMERICA.** The history of the Latin-American countries from the Spanish conquest to the present time. The course also takes up the history of the present British possessions in America, especially of Canada. 3 hours.

### SOCIOLOGY

1. **SOCIAL EVOLUTION.** An introductory course in the theory of society in which the greater part of the work has to do with the evolution of the major social institutions. Open to all above freshman rank. Two sections: III and VI, 3 hours.

2. **SOCIAL PROBLEMS.** A review of certain outstanding and distressing facts in modern social life together with the attempted solutions. Open to all above freshman rank. Two sections, III and VI, 3 hours.

3. **GROUP BEHAVIOR.** An approach to a scientific social psychology based on recent contributions of various authors and applied to actual social situations. Prerequisite, one course in Sociology and Philosophy I. IV, 3 hours.

4. **MAJOR SOCIAL PROBLEMS.** This work is an advance upon Sociology 2 in that problems more fundamental are attacked and more intensive work is done. Considerable time is given to population and race problems in the United States and the pathology of the family. Prerequisite, Sociology 1 and 2. IV, 3 hours.

### ECONOMICS

Students whose major subject is Economics or Political Science should advise with Professor Beyle.

1-2. **ELEMENTARY ECONOMICS.** A careful consideration is given to the basic principles of Economics. Not open to freshmen. Two sections. Mon., Tu., Thurs., III, or Mon., Wed., Fri., III, 3 hours.

3. **PRINCIPLES OF MONEY AND BANKING.** Analysis of the principles and problems presented by the monetary and banking systems of the leading commercial countries. Prerequisites, courses 1-2. (Offered 1921-1922.) I, 3 hours.

4. **LABOR CONDITIONS AND PROBLEMS.** An analysis of the genesis of the wage working class, the conditions and problems arising out of the industrial and legal status under modern capitalism, and the solutions of these problems offered by legislation, trade unions, socialism, and current reform projects. Prerequisites, courses 1-2. (Offered 1921-1922.) I, 3 hours.

5. **PRINCIPLES OF BUSINESS ADMINISTRATION.** An analysis of the problems of the business man, including a study of factors external to the plant and the internal problems involved in the production and sale of goods. Prerequisite, course 1-2. (Omitted 1921-1922.) I, 3 hours.

6. **PRINCIPLES OF ACCOUNTING.** The object of this course is to give the student that general knowledge of accounting theory and practice which every business and professional man should possess. Prerequisite, course 1-2; laboratory hours to be arranged. (Omitted 1921-1922.) I, 3 hours.

7-8. **SEMINAR.** Open to advanced students who wish to carry on independent study and investigation. Topics to be chosen from the fields of Public Finance, Agricultural Economics, and History of Economic Thought. Prerequisites, twelve hours in Economics and permission of the instructor. Either first or second semester. 2 hours to be arranged.

### POLITICAL SCIENCE

1. **AMERICAN GOVERNMENT.** An analysis of the political forms, functions and forces, formal and informal in the United States.

Two sections, Mon., Tu., Thur., IV. and Mon., Wed., Friday, IV. 3 hours.

2. **ELEMENTS OF POLITICAL SCIENCE.** A systematic survey of the concepts, principles and problems of the field followed by an historical study of the development of political thought. Prerequisite, course 1. (Omitted in 1921-1922.) IV, 3 hours.

3. **MUNICIPAL GOVERNMENT.** An analysis of the political forms, functions and forces, formal and informal of the modern municipality. Prerequisite, course 1. (Omitted in 1921-1922.) VII, 3 hours.

4. **COMPARATIVE GOVERNMENT.** A comparative study of the principal political forms, functions and forces, formal and informal of typical foreign states. Prerequisite, course 1. (Offered 1921-1922.) IV, 3 hours.

5. **ELEMENTS OF JURISPRUDENCE.** An outline study of the nature and function, origin and development, scope and divisions of law, followed by a case study of a limited field, selected topics of constitutional law. Prerequisite, course 1. (Offered in 1921-1922.) VII, 3 hours.

6. **INTERNATIONAL LAW.** A case study of the general principles of the field. Prerequisite, course 1. Course 5 is advised. (Offered in 1921-1922.) VII, 3 hours.

7-8. SEMINAR. Open to advanced students who wish to carry on independent study and investigation. Topics to be chosen from the fields of Local, Rural and State Government, Social and Economic Legislation, International Relations and Constitutional Law. Prerequisite, twelve credit hours in Political Science and permission of the instructor, either first or second semester. Hours to be arranged. 2 hours.

## HOUSEHOLD ECONOMICS

MISS TETEDOUX

1-2. FOODS. The production, chemical composition, and digestion of foods. The laboratory work includes the application of underlying principles involved in food preparation. Prerequisite, Chemistry 1-2. Fee, \$15 each semester.

VI, VII, 4 hours.

3. HOUSEHOLD ADMINISTRATION. Study of the family; the economic function of woman; home making as a profession; house planning and furnishing; organization of the household, labor-saving devices, sanitary requirements, the servant problem, expenditures involved in housekeeping, division of the income and the budget system, household accounts.

VII, 2 hours.

4. HOUSEHOLD SANITATION. Study of the site of the house; water supply and sewage disposal; plumbing, heating, lighting, ventilation; cleaning and renovating; care and storage of food.

VII, 2 hours.

A-B. SEWING. This course includes drafting, cutting, and plain hand and machine sewing. Meets the needs of students preparing to teach sewing. This course does not earn college credit. Fee, \$12 each semester.

III-IV.

## LATIN

ASSOCIATE PROFESSOR JOHNSON

Students taking Latin with a view to the degree of Bachelor of Arts, or taking a Latin sequence for either of the other bachelor's degrees, will take courses 1 to 4 in order, and such advanced courses as may be desired thereafter.

All courses in the department are open as electives to any student who, in the judgment of the instructor, has had sufficient Latin to pursue the work with profit, but courses 1-2 must precede any of the more advanced work except courses 11-12, on Roman Life, which are open to all college students.

1. (a) LIVY. Books XXI-XXII, or selections from the earlier books.
- (b) CICERO's *De Senectute* or *De Amicitia*. Review of Latin syntax.

Sections at I and III, 4 hours.

2. ODES AND EPODES OF HORACE. Sight reading from the Satires, and notes on Roman Poetry.

Sections at I and III, 4 hours.



# **CORRECTION!!!**

The previous document(s) may  
have been filmed incorrectly...

Reshoot follows

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## HOUSEHOLD ECONOMICS

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1. (a) LIVY. Books XXI-XXII, or selections from the earlier books.
- (b) CICERO's *De Senectute* or *De Amicitia*. Review of Latin syntax.

Sections at I and III, 4 hours.

2. ODES AND EPODES OF HORACE. Sight reading from the Satires, and notes on Roman Poetry.

Sections at I and III, 4 hours.



3. THE ROMAN STAGE. Two plays of Plautus and one of Terence. Notes on the history of the Ancient Drama. IV, 4 hours.

4. RHETORIC AND LITERARY CRITICISM OF THE ROMANS. This course is based on Books X and XII of Quintilian, with collateral work in the rhetorical writings of Cicero, the Epistles of Horace, and the Dialogus of Tacitus. The relation of Greek and Roman ideas to present day problems of Rhetoric and Criticism is emphasized. IV, 4 hours.

5. THE ROMAN EPIGRAM AND ELEGY. Selections from Martial and the Elegiac poets. Alternates with course 7 and is offered in 1921-1922. II, 3 hours.

6. THE ANNALS OF TACITUS OR LETTERS OF CICERO AND PLINY. Emphasis is placed on social and political conditions and problems suggested by the text. Alternates with course 8, and is offered in 1921-1922. II, 3 hours.

7-8. VIRGIL. A study of the poems of Virgil and their place in the history of literature from points of view which cannot be emphasized in the preparatory school. The two semesters are not open to election separately. Especially advised for students who expect to become teachers of Latin in secondary schools. Open to juniors and seniors who have had not less than three semesters' work in this department. These courses alternate with 5-6 and are not offered in 1921-1922. II, 3 hours.

9-10. LATIN WRITING. A course in composition, open to students who have had Freshman Latin, and especially advised for those who are preparing to teach Latin. The two semesters are not open to election separately. II, 2 hours.

11-12. ROMAN LIFE. An outline of the more important phases of Roman character and achievement. The text book will be supplemented by notes and assigned reading, with photographs and lantern illustrations for certain portions of the work. Ability to read Latin is not prerequisite. VI, 2 hours.

A. Selections from the Orations of Cicero, or from Ovid's *Metamorphoses*. Intensive work in form and syntax; prose composition; sight translation. Open to students who have had 2-3 years of secondary Latin.

First semester, VII, 4 hours.

B. VIRGIL. Selections from the first six books of the *Aeneid*; supplementary work as in course A. Prerequisite, course A, or 3 years of secondary Latin.

Second semester, VII, 4 hours.

## MATHEMATICS

PROFESSOR WILEY

ASSOCIATE PROFESSOR PECKHAM

MR. SHEETS

MISS JEFFERSON

Freshmen must register for course 1 or 1b. Courses 1, 2, 3, 4, 5 form a sequence as do courses 1b, 2b, 3b, 4b. The second sequence is advised by the heads of the departments of Astronomy,

Engineering, Mathematics, and Physics for students who anticipate doing their major work in any of these departments, and should be elected by students who have had trigonometry in high school or were otherwise strong in high school mathematics.

1. PLANE TRIGONOMETRY.

I, II, III, IV, VII. 3 hours.

(NOTE—Freshmen who are found unable to carry the regular college work in mathematics will be transferred to special sections in which they can make up their deficiencies. The credit earned in such sections will depend upon the amount of review work required.)

2. COLLEGE ALGEBRA. Prerequisite, course 1.

I, II, III, IV, VII. 3 hours

1b-2b. PLANE TRIGONOMETRY, COLLEGE ALGEBRA, ANALYTIC GEOMETRY. Twelve weeks of each. This course covers the ground of courses 1, 2 and 3. (See note under description of course 1.)

IV, 5 hours.

2d. PLANE TRIGONOMETRY six weeks, COLLEGE ALGEBRA twelve weeks. Students register for this course only upon advice of the Mathematics Department.

I, II, III, IV, VII, 3 hours.

2c. PLANE TRIGONOMETRY twelve weeks, COLLEGE ALGEBRA six weeks. Students register for this course only upon advice of the Mathematics Department.

I, 5 hours.

3. ANALYTIC GEOMETRY. This course is a continuation of courses 1-2. Sophomore year. Prerequisite, six hours of credit in freshman mathematics.

II, 4 hours.

4. DIFFERENTIAL CALCULUS. An elementary course designed to follow course 3. Sophomore year, second semester. Prerequisite, course 3 or 2b.

II, 4 hours.

5. INTEGRAL CALCULUS. Designed to follow course 4. Prerequisite, course 4 or 3b.

III, 4 hours.

3b-4b. DIFFERENTIAL AND INTEGRAL CALCULUS. (Extended Course). Designed to follow course 1b-2b. Prerequisite, course 2b or 3.

I, 5 hours.

6. COLLEGE GEOMETRY. A synthetic treatment of inversion, collinearity and concurrence, anharmonic division, and like topics. This course is designed for students who expect to teach high school geometry, and those who wish to continue work in that subject. Open to all students. Alternates with course 1c and is offered in 1921-1922.

III, 4 hours.

10. MATHEMATICAL THEORY OF INVESTMENT. An introduction to the Algebra of certain forms of investment, and to the fundamental principles of life insurance. Prerequisite, course 1b or 2. Alternates with course 6, and is not offered in 1921-1922.

III, 3 hours.

15. **SYNTHETIC PROJECTIVE GEOMETRY.** An introductory course. Prerequisite, course 2b or 3. Alternates with course 17 and is not offered in 1921-22.

II, 4 hours.

17. **ADVANCED CALCULUS.** The content of this course will vary somewhat from year to year to meet the needs of the students electing it. Alternates with course 15 and is offered in 1921-1922. Prerequisite, course 5 or 4b. II, 4 hours.

18. **DIFFERENTIAL EQUATIONS.** An introductory course. Prerequisite course 4b or 5. Alternates with course 20 and is offered in 1921-1922. II, 4 hours.

20. **VECTOR ANALYSIS.** A concise treatment of the fundamental principles of the subject, with selected applications to geometry and mathematical physics. Prerequisite, course 5 or 4b. Alternates with course 18 and is not offered in 1921-1922.

II, 4 hours.

For courses in Applied Mathematics, see Physics 7-8, Astronomy 6, 9-10 and Civil Engineering 7-8.

## MILITARY SCIENCE AND TACTICS

PROFESSOR LIEUTENANT COLONEL CHARLES B. CLARK, U. S. ARMY

The department offers a Basic Course and an Advanced Course, each of two years' duration, with commissions as Second Lieutenant of Infantry in the Officers' Reserve Corps of the Army offered to all who successfully complete the full course. The work is essentially theoretical, with practical work and demonstration freely used.

1-4. **BASIC COURSE.** A two-year progressive course, comprising the essentials of the training of an infantry soldier; physical training, military courtesy and discipline, infantry drill, target practice, personal hygiene, first aid, camp sanitation, topography and map reading, and signalling. Open to all physically fit male students. A student who enrolls in this course is required to complete the two years' work as a prerequisite for graduation, unless excused by the college authorities, upon recommendation of the instructor. 2 hours credit each semester, 3 hours per week.

Monday VI or VII, Wednesday VI-VII, 2 hours.

A **SUMMER CAMP** of six weeks' duration open to all students enrolling in this course is conducted annually by the War Department. Attendance is optional.

5-8. **ADVANCED COURSE.** Practical application of the subject of courses 1-4; students serve as officers and non-commissioned officers in the instruction and training of students in the Basic Course; advanced study of military science, including field engineering, military law, history, and policy. Prerequisite, courses 1-4, recommendations of the department and acceptance by the War Department. Students enrolling in this course sign government contract to pursue the course two years, if they remain in college, and to attend one summer camp. 4 hours credit each semester, 5 hours per week.

Mon. Tu. Thurs. VI or VII, Wed. VI-VII, 4 hours.

## MODERN LANGUAGES

PROFESSOR W. A. CHAMBERLIN

ASSOCIATE PROFESSOR ODEBRECHT

ASSOCIATE PROFESSOR WARD

MISS TANNER

MRS. BATTELLE

This department includes German and the Romance Languages. Two years' work in Modern Languages, in addition to whatever work may have been taken in secondary school, is required as a prerequisite for graduation.

## GERMAN

1-2. BEGINNERS' COURSE. Essentials of Grammar; practice of pronunciation, oral and written reproduction of simple German expressions; reading, including some favorite lyrics. IV, 4 hours.

3. NARRATION. *Novellen*, short stories by modern authors; review of grammar, with daily practice in the oral and written use of the foreign idiom. Prerequisite, 1-2, or 2 years of secondary German. Hours to be arranged. 4 hours.

4. NARRATIVE AND DRAMATIC LITERATURE, including one of Schiller's Dramas. Prerequisite, 1-3. Hours to be arranged. 4 hours.

11-12. SCIENTIFIC GERMAN. Courses for students who wish to acquire ability to read scientific works in German. General works of science are first chosen, leading later to periodical literature and special articles.

Prerequisite, 1-2 or 2 units of entrance credit. II, 4 hours. Prof. Biefeld.

(NOTE—Courses will not be given unless a sufficient number of students apply for them to warrant organization of classes.)

## FRENCH

1-2. BEGINNERS' COURSE, comprising the essentials of grammar; pronunciation, composition, translation; practice in speaking French. Aldrich and Foster's *Elementary French*. Reading selected from some of the following:—Snow and Lebon's *Easy French*, Francois' *Easy French Reading*, Bruno's *Le Tour de la France*.

Sections at II, III, VI, 4 hours.

3. NARRATIVE: Review of grammar; irregular verbs, composition and dictation, increased use of French. Fraser and Squair's *French Grammar*; reading from some of following texts:—*Le Conscrit de 1813*, Daudet's *Selected Stories*, Maupassant's *Short Stories*, Dumas' *La Tulipe Noire*. Prerequisite, courses 1-2.

Sections at II and VII, 4 hours.

4. MODERN PROSE AND DRAMA: Continuation of course 3. Advanced prose composition; reading selected from some of the following:—Bazin's *Les Oberlé*, France's *Le Livre de mon Ami*, Buffum's *French Short Stories*, Pailleron's *Le Monde ou l'on s'ennuie*; Poems. Prerequisite, courses 1-3.

Sections at II and VII, 4 hours.

5. NINETEENTH CENTURY LITERATURE. Course conducted largely in French. Careful reading of more difficult modern texts; special study of idioms. Weekly themes based on reading from several of the following texts: Balzac's *Cinq Scènes de la Comédie Humaine*, Eugène Grandet, Buffum's *Stories from Balzac*, Hugo's *Les Misérables*, Michelet's *Histoire de la France*, Canfield's *French Lyrics*.

Prerequisite, Courses 1-4.

I, 3 hours.

6. THE CLASSICAL DRAMA. Careful study in class of several plays of Corneille and Racine. Written reports on plays read outside the class. Prerequisite, courses 1-5.

I, 3 hours.

7. MOLIERE. A study of the life and works of Moliere in their relation to French society of the 17th century. Reading of plays in class; written reports on outside reading. Prerequisite, courses 1-6.

III, 3 hours.

8. SURVEY OF FRENCH LITERATURE. Brief review of French literature from Middle Ages to the present. Texts:—Douchic's *Histoire de la Littérature Française*, or Saintsbury's *Short History of French Literature*. Readings from Saintsbury's *Specimens of French Literature* or Vreeland and Michaud's *Anthology of French Prose and Poetry*. Supplementary readings and reports. Prerequisites, courses 1-6.

III, 3 hours.

## ITALIAN

PROFESSOR ODEBRECHT

1. ELEMENTARY COURSE; Grammar; pronunciation and reading. Written exercises. Grandgent's *Italian Grammar*. Amicis' *Cuore*, or Wilkin and Altrocchi's *Italian Short Stories*.

IV, 4 hours.

2. CONTINUATION OF COURSE I. Manzoni's *I Promessi Sposi*; Goldoni's *La Locandiera*, *Il Fero Amico*.

IV, 4 hours.

## SPANISH

PROFESSOR WARD

MRS. BATTELLE

1-2. BEGINNERS' COURSE: Hill's and Ford's *First Spanish Course*; reading, conversation, composition, and grammar; acquisition of a working vocabulary.

Sections at I, IV, VI, 4 hours.

3. SHORT STORIES: Complete review of grammar; Umphrey's *Spanish Prose Composition*; assigned and sight reading from such texts as Alarcon's *El Capitan Veneno*, Valera's *El Pajaro Verde*. Prerequisite, 1-2.

III, 4 hours.

4. MODERN NOVEL AND DRAMA: Assigned and collateral reading of such works as Alarcon's *El Sombrero de tres picos*, Pereda's *Pedro Sanchez*, Valdes' *Jose*; composition continued. Prerequisite, 1-3.

III, 4 hours.

5. INTRODUCTION TO SPANISH LITERATURE: Padre Isla's *Gil Blas*, Ford's *Old Spanish Readings*, Fitzmaurice-Kelley's *History of Spanish Literature*; Spanish themes. Prerequisite, 1-4.

II, 3 hours.

6. DRAMA AND LYRIC POETRY. Lope de Vega's *La Moza de Cantaro* and *El Nuevo Mundo*. Tirso de Molina's *Don Gil de las calzas verdes*, Alarcon's *Las*

*Paredes Oyen*, Calderon's *La Vida es sueño* and *El Alcalde de Zalamea*, Moratin's *El Si de las ninas*; ballads and lyrics. Spanish themes. Prerequisite, courses 1-5.

II, 3 hours.

8. COMMERCIAL SPANISH: Alternates with course 6 and may be offered, if the class prefers; same prerequisites as 6.

II, 3 hours.

## MUSIC

PROFESSOR ESCHMAN

MR. LYTLE

Courses in this department are open to all students of the University, without prerequisites. For students taking a principal sequence in Music, it is recommended that courses 1-2 and 3-4 be taken in the freshman, 7-8 in the sophomore, 9-10 in the junior, and 13-14 in the senior year. Courses 5, 6, 11, and 12 may be taken in any year.

1. APPRECIATION OF MUSIC. Fee, \$8 for Conservatory students. Students paying full college tuition may elect the course without extra charge. VII, 2 hours.

2. PHYSICAL BASIS OF MUSIC. Given in alternate years. Offered in 1921-1922. Fee, \$8 for Conservatory students. Students paying full college tuition may elect these courses without extra charge. VII, 2 hours.

3-4. ELEMENTARY HARMONY. Fee, \$8 each semester to Conservatory students. Students paying full college tuition may elect these courses without extra charge. IV, 2 hours.

5. HISTORY OF MUSIC TO THE EIGHTEENTH CENTURY. Fee, \$12. VI, 3 hours.

6. HISTORY OF MUSIC, FROM THE EIGHTEENTH CENTURY TO THE PRESENT TIME. A continuation of course 5, but may be elected separately. Fee, \$12.

VI, 3 hours.

7-8. ADVANCED HARMONY. Fee, \$12 each semester.

IV, 3 hours.

9-10. COUNTERPOINT. Fee, \$12 each semester.

III, 3 hours.

11-12. MUSICAL FORM. Fee, \$8 each semester.

III, 2 hours.

13-14. STRICT COMPOSITION. Fee, \$8 each semester.

VI, 2 hours.

15-16. FREE COMPOSITION. Fee, \$8 each semester.

I, 2 hours.

## PHILOSOPHY AND EDUCATION

PROFESSOR LEWIS

PROFESSOR SPENCER

### PHILOSOPHY

1. BEGINNING PSYCHOLOGY. An introductory study of the different functions of the mind and of the laws that control its activity, based on the results of

introspective and experimental investigation. Open to juniors and seniors, with exceptions in the case of students doing major work in Education.

Sections at II and III, 3 hours.

(As far as possible all students not ranking as high as junior should enroll in the 8:30 section.)

2a. **ADVANCED PSYCHOLOGY.** Mental processes will be studied in considerable detail and some attention given to recent extension of psychology in a practical way. Parallel reading including current literature. Prerequisite, Philosophy 1. III, 3 hours.

3. **ELEMENTARY PHILOSOPHY.** The aim is to introduce the student to the chief problems of philosophy, to train him in accurate thinking and to enable him to come to intelligent conclusions for himself. Open to juniors and seniors.

III, 2 hours. Mr. Spencer.

4. **HISTORY OF PHILOSOPHY.** The most important systems of philosophy developed in ancient, mediaeval, and modern times. Special emphasis will be placed on Greek and modern philosophy, including present tendencies. Open to seniors, others with permission of instructor.

III, 2 hours. Mr. Spencer.

6. **LOGIC. DEDUCTIVE AND INDUCTIVE.** The subject is treated not merely as a system of mental gymnastics but as a method of practical training for philosophical, scientific and judicial investigation. Open to sophomores, juniors and seniors.

VII, 3 hours. Mr. Spencer.

7. **ARGUMENTATION.** A careful study of the subject matter and form of propositions, the definition of terms, the analysis of the contentions, the discovery of the main issues, evidence, persuasion, and refutation. Brief-making, pleading, and debating followed by judicial criticism. Open to sophomores, juniors, and seniors.

VII, 3 hours. Mr. Spencer.

8. **ARGUMENTATION APPLIED.** Students taking part in the inter-collegiate debating teams may enroll in a regular class, under the instruction of the Professor of Logic, who is also Chairman of the Faculty Committee on Inter-collegiate Debating. When the work is satisfactorily done, scholastic credit is given.

I to 3 hours. Mr. Spencer.

9. **EVIDENCES OF CHRISTIANITY.** The view of the world from the standpoint of the Christian compared with conflicting philosophical theories; the character of Jesus Christ; the evidence of Christian experience; early and later historical testimony, and the fruits of the Christian religion. Open to sophomores, juniors, and seniors.

VI, 3 hours. Mr. Spencer.

10. **ETHICS.** A discussion of the principles that obtain in moral conduct, and of their application. Open only to juniors and seniors, with exceptions as noted under course 1.

III, 3 hours. Mr. Spencer.

## EDUCATION

The courses in Education give students who expect to teach an opportunity to gain some knowledge of the science and art of that vocation. Pedagogical training is now required of teachers in almost every state in the Union, this requirement being usually about fifteen hours, and including such subjects as are listed in the Denison program of education courses. College students who desire to obtain the four-year provisional high school certificate granted in Ohio must include in their college course at least thirty semester hours of "professional" work. The purely pedagogical requirement is as follows:

A group prescription of twelve hours in the History of Education, Methods, Principles, Organization and Management, and Psychology, with not less than two hours in each, and three additional hours in Practice Teaching and Observation.

The remaining hours of the thirty may consist of further study in the subjects listed (which would include special methods in such subjects as English, Latin, Mathematics, Hygiene), or be selected from a "semi-professional" group including Ethics, Logic, Philosophy, and Sociology.

1. HISTORY OF EDUCATION. A general survey of educational practice and theory from ancient times to the present—subject matter, method, discipline, organization. The influences of social conditions upon education. Special emphasis on the work of modern educational reformers. Prerequisite, Philosophy I  
IV, 3 hours.

2. SECONDARY EDUCATION IN THE UNITED STATES. The historical development of American middle schools—grammar school, academy, high school, and normal schools. Comparison with foreign systems. Present tendencies. Prerequisite, Philosophy I and Education I.  
IV, 3 hours.

5. HIGH SCHOOL METHODS. The choice and presentation of subject matter, the handling of the different subjects with regard to studying and to teaching school routine and management. Prerequisite, Philosophy I.  
VI, 3 hours.

6. PRINCIPLES OF EDUCATION. An introduction to the fundamentals of education, from the side of psychology and sociology. The processes of learning; instinct, habit, memory. Educational development in relation to social life. Prerequisite, Philosophy I.  
VI, 3 hours.



7-8. OBSERVATION AND PRACTICE TEACHING. Open only to seniors who have had Philosophy 1 and Education 5 and 6. Students in this course will visit secondary school classes as observers and make reports. They will also teach under supervision, beginning this latter work some time after they have begun making observations. Time schedule to be arranged. May be taken either semester.

3 hours.

12. SCHOOL ADMINISTRATION AND ORGANIZATION. This course is intended for students who wish to acquaint themselves with the larger problems of the school: school funds, grouping of pupils, extension of school activities, standardization, systematic study of the curriculum, health supervision. II, 3 hours.

## PHYSICAL EDUCATION

PROFESSOR LIVINGSTON

MR. JENKINS

A progressive course in systematic and rational physical education is given, covering a minimum of three hours per week in the freshman and sophomore years, for which one credit per semester is allowed. A careful physical examination of each student is made at the beginning of each year, of which an accurate record is kept, and advice is given to assist the individual in maintaining a healthy body. Physical efficiency tests are given at the end of each semester and a satisfactory grade must be made.

1-2. FRESHMEN. Required for a degree. Gymnastics, track, baseball, basketball, tennis, swimming, football, class games, elementary tumbling and apparatus work, games. One credit. Three hours per week.

3-4. SOPHOMORES. Required for a degree. Advanced gymnastics, track, baseball, basketball, tennis, boxing, wrestling, advanced swimming, football, class games, advanced apparatus work. One credit. Three hours per week.

5-6. JUNIORS. Elective. Theory and Practice of teaching Physical Education. Some of the subjects offered are gymnastics, apparatus work, physical diagnosis, games, boxing, wrestling, swimming, massage, athletic coaching. Three credits. Minimum of six hours per week.

7-8. SENIORS. Elective. Intensive study in the Theory and Practice of teaching Physical Education. Three credits. Minimum of six hours per week.

## SHEPARDSON COLLEGE

MISS ATWELL

A course in physical education is required of all freshmen and sophomores, 3 hours per week, each course earning 1 credit hour per semester. A physical examination of each student is

made at the beginning of the year, the results of which are filed and used in assigning students to classes according to their respective needs.

1-2. FRESHMEN. Required for a degree. In the fall and spring seasons, 3 hours outdoor work in organized sports: archery, baseball, field hockey and tennis; in the winter season, indoor work: 2 hours, (a) gymnastics, or (b) corrective or remedial work, if the physical examination indicates the need of special work in these lines; 1 hour chosen from the following electives: elementary and advanced swimming, folk-dancing, elementary and advanced interpretive and æsthetic dancing, basketball. One credit, 3 hours per week.

3-4. SOPHOMORES. Required for a degree. Advanced work on topics as in course 1-2. Prerequisite, 1-2 or its equivalent. One credit, 3 hours per week.

5-6. ORGANIZED SPORTS; open to juniors and seniors who have completed courses 1-2, 3-4.

In the fall and spring seasons, 3 hours per week, no credit.

7-8. THEORY AND PRACTICE OF PLAY ACTIVITIES AND ATHLETICS: A study of the fundamental theories of play, and practice in their application to the teaching of play activities, folk-dancing, and athletics. Open to juniors and seniors, and to sophomores by permission of the instructor. 2 hours lecture and 2 hours in practical application per week. Prerequisite, courses 1-2, 3-4, and Zoology 5. 3 hours credit.

## PHYSICS

PROFESSOR COONS

PROFESSOR CHAMBERLAIN

MR. HOWE

The major sequence consists of courses 1, 2, 3 and 4 with six additional hours in Physics. Students preparing for graduate work should elect courses 9, 10, 15 and 16 in addition to the above. The minor sequence consists of courses 1, 2, 3, and is a minimum preparation for students planning to teach physics in secondary schools.

1. GENERAL PHYSICS. Lecture demonstrations and recitations covering the more important principles of Mechanics, Sound and Heat. Prerequisite, one year of High School Physics. Mathematics 1 or 1b should accompany or precede this course. I or VI, 3 hours.

2. GENERAL PHYSICS. A continuation of Physics 1. Electricity, Magnetism and Light. Prerequisite, Physics 1, Mathematics 1 or 1b. I or VI, 3 hours.

1a-2a. GENERAL PHYSICS. Laboratory courses paralleling the work of courses 1 and 2. Elective for students who are registered for Physics 1 and 2 and

desire a less extensive laboratory training than is offered in Physics 3 and 4. Fee, \$2.00.

I-II, 2 hours.

3. LABORATORY PHYSICS. The essentials of Mechanics, Molecular Physics and Heat. Prerequisite, Physics 1-2, and Freshman Mathematics. Fee, \$3.00.

III-IV, 4 hours or VI-VII, 4 hours.

4. LABORATORY PHYSICS. The more fundamental experiments in Sound, Light, Magnetism and Electricity. Prerequisite, Physics 1-2 and Freshman Mathematics. Fee, \$3.00.

III-IV, 4 hours or VI-VII, 4 hours.

5. EXPERIMENTAL PHYSICS. An advanced course in Electrical Measurements. Prerequisites, Physics 1-4, and the Calculus. Fee, \$3.00.

VI-VII, 3 hours.

6. EXPERIMENTAL PHYSICS. An advanced course in Light, consisting of measurements in Diffraction and Interference. Prerequisite, Physics 1-4, and the Calculus. Fee, \$3.00.

VI-VII, 3 hours.

7. THEORETICAL PHYSICS. A lecture course presenting the Kinetic Theory and elementary Thermodynamics. Prerequisite, Physics 1-4 and the Calculus.

III, 3 hours.

8. THEORETICAL PHYSICS. A lecture course in Physical Optics covering selected topics in Diffraction and Interference. Prerequisite, Physics 1-4 and the Calculus.

III, 3 hours.

9-10. ELEMENTS OF ELECTRICAL ENGINEERING. A lecture and laboratory course presenting the general theory of direct and alternating current circuits, and their application to direct and alternating current machinery. Prerequisite, Physics 1-4, and the Calculus. Fee, \$3.00.

III, 2 hours, with one 4-hour laboratory period, 4 hours credit.

11. HISTORY OF PHYSICS. A lecture and library course treating the development of Physics from an historical viewpoint. Prerequisite, Physics 1-4.

VII, 2 hours.

15-16. THESIS IN PHYSICS. Elective for seniors who take their major work in Physics. Students who have shown ability to profit by such a course will be assigned a problem for individual investigation. Two to five hours.

## PUBLIC SPEAKING

ASSISTANT PROFESSOR JOHNSTON

This department affords training in expression, by finding and applying principles for developing the voice, mind, and body in reading and speaking. The work is in no sense a mere coaching for occasions, but a personal, cultural training which aims at helping the student gain command of his own creative powers.

1-2. FUNDAMENTALS OF EXPRESSION. A general preparatory course in the art of self-expression through speech and action. The aim is to enlarge the student's native powers, give him self-control, and awaken his interest in oral interpretation.

Sections at IV and VII, 3 hours.

3a-4a. **EXTEMPORE SPEAKING.** Practice in thinking in the presence of others, and in presenting one's thoughts in a vigorous and attractive manner. The more common forms of occasional speech will be studied, with appropriate criticism by the instructor and class members. Parliamentary drill. Prerequisite, courses 1-2. VI, 3 hours.

5a. **DRAMATIC READING.** This course aims to develop the ability to express privately or from the platform some of the greatest thoughts of the world's great minds. Study of the tone qualities, gestures, and attitudes employed by the reader as distinguished from the orator. Presentation of short scenes from standard plays. Prerequisite, course 1 or 2. VII, 2 hours.

6a. **ADVANCED READING.** A course intended for those who have a special talent or liking for dramatic expression. Portions of the poetry and prophecy of the Bible will be studied for public reading, also scenes from one or two Shakespearean tragedies. Prerequisite, course 5a. Hours to be arranged. 3 hours.

## ZOOLOGY

PROFESSOR KORNHAUSER

The Department offers courses of general instruction in Zoology and Physiology, together with those of more special character for students preparing for professional work. Students preparing for medical college can meet the entrance requirements of such colleges by taking courses 1-4. In addition to these, courses 7-10 are recommended.

1-2. **GENERAL ZOOLOGY.** Beginners' course, lectures and laboratory work upon type specimens of the animal kingdom. The second semester's work deals with the fundamental problems of zoology; the cell and its development, heredity, ecology and the ancestry of animals. Fee, \$1.25 per hour of credit.

I and I-II, 4 hours. (Or 3 hours by special permission of the instructor.)

3-4. **COMPARATIVE ANATOMY.** A comparative study of vertebrate anatomy, including laboratory work and lectures. Detailed study of Amphioxus, Acanthias, Necturus, the turtle, the mammal and the bird. Students may arrange to spend part of their laboratory work on invertebrate forms not taken up in course 1. Prerequisite, course 1-2. Fee, \$1.25 per hour of credit. I and I-II, 3-4 hours.

5. **PHYSIOLOGY AND HYGIENE.** Lectures and demonstrations dealing with the form and functioning of the human body; the causes of impairment or up-setting of the normal physiology. The course embraces the study of the muscles, nervous system, digestion, circulation, respiration, excretion and reproduction. Open to all students. IV, 3 hours.

6. **EVOLUTION AND HEREDITY.** Fundamental evidences of Evolution taken from Paleontology, Embryology, Comparative Anatomy, Taxonomy Adapta-

tion and Distribution. The greater part of the work will deal with the study of Heredity, especially the progress made in the study in recent years.

Open to all students.

IV, 3 hours.

7-8. HISTOLOGY AND CYTOLOGY. Study of the cell and of the methods for preparation of materials for microscopic examination. During the second semester emphasis will be laid upon the study of the fundamental tissues of the mammalian body from prepared material. Prerequisite, courses 1-2. Fee, \$5.00 each semester.

III, and III-IV, 4 hours.

9-10. EMBRYOLOGY AND EMBRYOLOGICAL TECHNIQUE. Courses parallel to courses 7-8; methods of preparing material for the study of Embryology, types of cleavage and formation of germ layers. Study of the fundamental processes of development to the adult mammalian form. During the second semester the work centers upon the study of the frog, chick, and pig. Prerequisite, hours, and fees, same as for courses 7-8. (Omitted in 1921-1922.)

11-12. ADVANCED WORK IN HISTOLOGY AND CYTOLOGY. Continuation of courses 7-8, under the direction of the Professor in charge. Work will be outlined and the student allowed considerable freedom in the use of the laboratory. Both semesters, 2-5 hours, to be arranged. Fee, \$1.25 per hour of credit.

13-14. INDIVIDUAL WORK IN PARASITOLOGY. Variety of material, Protozoological, Helminthological and Entomological. Prerequisite, courses 7-8; 3-5 hours, to be arranged. Fee, \$1.25 per hour of credit.

NOTE—Owing to the connection of the teaching staff in the Department of Zoology with the Biological Laboratory at Cold Springs Harbor, L. I., students may continue their studies at that station during the summer months. Courses of college grade in Field Zoology, Comparative Anatomy, and Heredity are offered each summer.

# The Conservatory of Music

## FACULTY

KARL H. ESCHMAN, A.M.

*Fellow of the American Guild of Organists  
Director and Professor of Music*

Graduate of Denison Conservatory in Piano and Organ;  
Graduate Student, Harvard University, 1911-12, under Walter  
R. Spalding and Edward Burlingame Hill; 1912-13, under Hugo  
Kaun and Piano under Victor Heinze, Berlin.

FANNIE JUDSON FARRAR

*Head of Piano Department*

Pupil in Piano of J. Emil Ecker, Toledo, Ohio; Constantin  
Sternberg, Philadelphia; Bertrand Roth, Dresden; Tobias Matthay  
and Claude F. Pollard, London. Student in Vienna and in  
Musical Kindergarten of Mrs. Fannie Church Parsons, Chicago.

VICTOR VAUGHN LYTLE, MUS. B., A.A.G.O.

*Organ*

Graduate of Knox College 1909; Post-graduate student and  
teacher of organ, Oberlin, 1909-11. Director of the Wooster  
College Conservatory of Music. Student of Pietro Yon, Gaston  
Dethier and Seth Bingham.

GAYLE INGRAHAM SMITH

*Violin*

Pupil of A. R. Bunker of Boston, and Luigi von Kunits,  
Pittsburg. Artist graduate of the Cincinnati Conservatory  
under Tirindelli and Edgar Stillman Kelly.

FRANCES HENRY

*Piano*

Graduate Conservatory of Toronto, Canada. Student of  
Teresa Carreno, Ferdinand Hummel, and Theodore Wihmeyer  
in Leipsic and Berlin.

## DENISON UNIVERSITY

CLARENCE D. COONS, M.S.  
*Professor of Physics in Denison University*

MARY RECKARD FITCH  
*Voice*

Pupil of D. A. Clippinger, Hannah Butler and Lemuel Kilby,  
Chicago; Head of Voice Department, Academy of Our Lady;  
Instructor in Lyceum Arts Conservatory, Chicago.

CHARLES MAREAU  
*Voice*

Artist Graduate of the Cincinnati Conservatory of Music.

IDA MADDOCK  
*Solfeggio and Public School Music*

JOSEPHINE BONAZZI-LYTLE  
*Solfeggio*

Graduate of the Royal Academy of Santa Cecillie, Rome,  
Italy, 1898-1909, under Giovanni Sgambati and Francesco Bajardi.

FREDERICK G. DETWEILER, A.M.  
*Assistant Professor in Denison University*  
Business Manager

## GENERAL INFORMATION

## ENTRANCE REQUIREMENTS

There are no formal entrance requirements beyond the evidence of ability to profit by the instruction offered. The work of the year is divided into two semesters (see the University Calendar on page 3), and students may best enter the Conservatory at the beginning of a semester, although private lessons may be taken up at any time. No registrations are accepted, however, for less than the remainder of the semester.

## COLLEGE CREDIT

Denison University grants college credit for work in the theoretical courses of the Conservatory, on an equal footing with other elective studies, and a course leading to the degree of Bache-

lor of Philosophy may be taken with the Theory of Music as its major subject. Thus students working for the diploma of the Conservatory may at the same time apply the theoretical part of their course toward a bachelor's degree from the University.

#### REQUIREMENTS FOR GRADUATION

##### A—MUSICAL STUDIES

Candidates for graduation must select one branch of applied music and pursue it to the satisfaction of the head of that department. No fixed course is set, and no definite time can be given for the satisfactory completion of this part of the work, but ample opportunity is given for gauging the candidate's progress by means of student recitals, public and private.

In the Voice and Violin Departments candidates must pursue the study of the piano sufficiently (two semesters at the minimum) to enable them to play easy accompaniments at sight. All candidates for graduation must sing in the Chorus or play in the Orchestra for at least two semesters.

Theoretical work required in all departments comprises two semesters each of Solfeggio, Appreciation, Elementary Theory, History, Harmony, Counterpoint, Form, Strict Composition, and Physical Basis as described above.

##### B—LITERARY STUDIES

In addition to the musical studies required, candidates for graduation must satisfy the full requirements for entrance to the freshman class of Denison University, and complete one year of French, German, or Italian, and one year of English equivalent to that of the freshman year in Denison University. Evidence that this work has been completed elsewhere will be accepted upon the same terms as in the College.

##### DIPLOMAS AND CERTIFICATES

The Conservatory diploma is granted on recommendation of the Conservatory Faculty to students who have completed the prescribed course of study in any of its departments, together with the general requirements described above. Each candidate for the diploma must give a public recital during the senior year. To students substituting a certain amount of work in Normal



Training or public school music for the graduating recital and giving promise of aptitude for teaching, a certificate is granted instead of the diploma. A two years' course is offered leading to a certificate in public school music. Students completing satisfactorily any integral part of the work offered in the various departments of the Conservatory, involving not less than a year's study, may obtain an officially signed statement to that effect, together with a copy of the Registrar's record.

#### MUSIC LIBRARY

The music branch of the University Library, consisting of over seven hundred volumes of literature and music, is housed at the Conservatory, and is available on the same terms as the main library. There is also a collection of primitive musical instruments of great interest, most of which have been presented by Denison alumni.

#### PRACTICE PIANOS

The Conservatory is equipped with practice pianos of the highest grade. Hours and rooms for practice should be engaged at the time of registering, and no other use of instruments or rooms is allowed without special permission.

#### RECITALS AND CONCERTS

Semi-private student recitals take place frequently throughout the year, and students are expected to attend. A public recital is given by the more advanced students near the end of each semester. All students are under obligations to perform at recitals when so directed by their instructor. Students are not allowed to perform in public without the knowledge and consent of the instructor.

Besides the festivals of the Choral Society and various other concerts, a number of faculty recitals are given during the year, and several artist recitals, most of which are free to Conservatory students. Each year an historical series of recitals is given, presenting informally the music of individual composers or periods.

## MUSICAL ORGANIZATIONS

(a) *The Engwerson Choral Society*. Mr. Eschman, Director. Membership is open to all who can read music sufficiently well. The dues are fifty cents a semester. Two principal concerts are given each year, with notable artists assisting. According to the present custom, Handel's "Messiah" is sung each year at Christmas, while Geibel's "Nativity," Rossini's "Stabat Mater," Mendelssohn's "Hymn of Praise," "Elijah" and "St. Paul," Brahms' "Song of Fate," Bruch's "Fair Ellen," Ware's "Sir Oluf," Debussy's "Blessed Damsel," Haydn's "Creation," Coleridge-Taylor's "Hiawatha" and Wagner's "Lohengrin" are other works recently given. Rehearsals are held on Monday evenings throughout the college year.

(b) *The Denison Orchestra*. Mr. Eschman, Director. Membership is not limited to students in the University, but offers to anyone of sufficient ability the opportunity of playing classical and modern compositions under suitable direction. The Orchestra assists the Choral Society in presenting some of its oratorios, besides giving at least one concert independently in the spring. Regular rehearsals are held on Thursday evenings throughout the college year. Membership is free to those admitted.

(c) *The Denison Glee Club*. This is an organization of twenty young men chosen by annual competitive examination from the men of the University community. About twenty concerts are given each year, engagements being filled in Ohio, Pennsylvania, New York, Michigan, Indiana, and Illinois. The programs consist of classical numbers, popular glees, and college songs.

(d) *The Shepardson Glee Club*. This club consists of twenty four girls, and with the exception of the officers is reorganized each fall by competitive examination. An annual concert is given in May. The club comprises the best voices of Shepardson College and Denison Conservatory.

## SCHOLARSHIP

An annual scholarship, the gift of Mrs. E. S. Shepardson, is at the disposal of the Conservatory Faculty.

## CONSERVATORY BULLETIN

An annual Bulletin is published containing additional information regarding the Conservatory. A copy may be obtained by addressing Denison University, Conservatory of Music, Granville, Ohio.

## EXPENSES IN CONSERVATORY

## TUITION PER SEMESTER

In Pianoforte, Voice, Organ, or Violin	
Two private lessons per week.....	\$40.00
One private lesson per week.....	22.00
In Advanced Harmony, Counterpoint, or History of Music	
Class lessons, three hours per week.....	12.00
In Form, Canon and Fugue, Composition.	
Class lessons, two hours per week.....	8.00
In Elementary Harmony, Appreciation, and Physical	
Basis of Music, Class lessons, two hours per week...	8.00
Students paying regular college tuition may elect the last three courses without extra charge.	
In Solfeggio, Public School Music or Normal Training	
Class lessons, one hour per week.....	4.00
Rent of piano for practice, per semester hour (i.e. one hour a week for a semester).....	1.00
Rent of pipe organ for practice per hour.....	.15

Students taking Conservatory work equal to the cost of college tuition may elect college work, in addition, at the rate of \$3 per semester hour.

Rebate. Students dropping music before the middle of the semester must make arrangement for the rebate with the Director of the Conservatory, or Business Manager.

## DEPARTMENTS OF INSTRUCTION

## THEORY AND HISTORY

PROFESSOR ESCHMAN

MR. LYTLE

College credit may be obtained for any of the numbered courses. Those who intend to complete the theoretical course are advised to take courses 3-4, 7-8, 9-10, and 13-14 in consecutive years.

1. The Appreciation of Music. A non-technical course, open to all students of the University. The object is to point out the structural principles of musical art and to show what constitutes real merit in any field of musical activity. The work embraces lectures and analyses, collateral reading and critical reports of current recitals. VII, 2 hours.

2. The Physical Basis of Music. Mr. Lytle.

The fundamental laws of acoustics, governing the production and character of musical tones, are demonstrated by apparatus from the Physics department of the University. A lecture course, without prerequisites in music or science. VII, 2 hours.

3-4. Elementary Harmony. This course or its equivalent is prerequisite to all higher courses. It embraces a summary of music, a detailed study of the modern system of musical notation, the analysis of rhythm, practice in scale writing, transposition and the use of all the clefs. The work concludes with a study of elementary harmony including triad connection. IV, 2 hours.

5. History of Music to the Eighteenth Century. The work consists largely of assigned reading, with written reports, tests and theses. A collection of primitive instruments serves to illustrate the early stages of music, and typical music of the successive periods is rendered in class so far as possible. VI, 3 hours.

6. History of Music from the Eighteenth Century to the present time. Continuation of Course 5. VI, 3 hours.

7-8. Advanced Harmony. Review of intervals and triads; dominant and secondary chords; suspensions; augmented and altered chords; modulations; organ-point; the harmonization of given melodies in bass or soprano, mostly in four parts, and the composition of simple original pieces. Solfeggio and elementary theory are prerequisite, with knowledge of the pianoforte sufficient at least to play an ordinary hymn-tune at sight. IV, 3 hours.

9-10. Counterpoint. The principles of harmony applied to the melodious treatment of two or more voice parts in combination. Free harmonization of choral melodies; two, three, and four part counterpoint in the several orders; contrapuntal and imitative treatment of subjects in different voices for organ or

strings. Courses 7-8 are prerequisite and some proficiency in piano playing is required. III, 3 hours. Mr. Lytle.

11-12. Musical Form. Study of thematic construction and elements of composition, through analyses of the principal instrumental forms, as illustrated in the works of classic and modern composers. Practice is given in construction of the smaller musical forms, such as hymn-tunes, and the dance forms of the classic suite. Courses 7-8 must ordinarily precede this work, but by special permission may be taken in the same year. III, 2 hours.

13-14. Strict Composition. Analysis and composition of canon and fugue and the advanced forms of polyphonic music. This is a necessary preparation for the larger and freer forms of composition. Courses 7-10 are prerequisite, with some proficiency in pianoforte or organ playing. VI, 2 hours.

15-16. Free composition. First semester, original vocal settings of selected texts; analysis of standard choral works and songs; composition of short pieces for men's or women's voices and for mixed chorus unaccompanied. Later, types of accompaniment figures are studied and settings made with piano or other accompaniment. Second semester, analysis and composition of vocal and instrumental music in the larger forms, with writing for orchestral instruments; practice in forms, with writing for orchestral instruments; practice in reading from vocal and orchestral sources. Prerequisite, courses 9-14. I, 2 hours.

#### PIANO

MISS FARRAR

MISS HENRY

No set course is specified, but the work is adapted to the individual pupil, and the teaching preserves the cultural point of view as much as the professional. Foundations are thoroughly laid in a study of the instrument itself and of the natural laws of tone production. Technical facility and velocity looking toward an adequate technique are considered merely the basis of artistic interpretation. The principles of expression are taught by means of the music of both classic and romantic composers.

## VOICE

MRS. FITCH

MR. MAREAU

The object of this instruction is the correct placing of the voice, so that the tones are even and firm throughout the entire range. Stress is laid on the control of the breath, rhythm, and phrasing, together with enunciation and stage presence. Use is made of the classic song literature of all schools, especially the German, and of our own American song writers.

## ORGAN

MR. LYTLE

A certain facility at the piano and in sight-reading is necessary and this must be proved to the satisfaction of the instructor, who may prescribe such additional work as may seem advisable in preparation. A good organ touch, comprising legato and staccato playing, steadiness and smoothness of style, are the objective aims.

Rink's Organ School, Buck's Studies in Phrasing and Bach's Little Preludes and Fugues compose the ground work of study. This is followed by sonatas by Mendelssohn, Merkle, Guilmant, selections by Widor, Dubois, Boellman, Lemare, Best, Hollins, Buck and Parker. Special attention is given to hymn playing, accompanying and registration to meet the practical needs of church work.

## VIOLIN

MISS SMITH

Good tone production and clear intonation receive a large share of attention, followed by studies and special exercises to meet the needs of the individual. As the student becomes more proficient, pieces, sonatas, and concertos by classic and modern masters will be studied. It is the purpose to work not only for technical proficiency, but also for the higher and broader plane of artistic conception and interpretation. At least two semesters of piano study are required of candidates for graduation. Students are encouraged in ensemble playing, and those sufficiently

advanced are admitted to the University Orchestra. The experience thus gained is not the least valuable part of the training, and is required of candidates for graduation.

#### ENSEMBLE CLASSES

(a) Solfeggio. One hour per week, both semesters. Two years of this work, or a satisfactory equivalent, are required of candidates for graduation in any department of the Conservatory.

The course is provided to meet the needs of all who are in any degree deficient in the fundamental principles of music, such as rhythm, intervals, and scales, or who are unable to read vocal or instrumental music readily at sight. It includes both ear-training and sight-singing.

(b) Public School Music. One hour per week, both semesters, or two hours per week one semester. Time is to be arranged.

The aim is to give an equipment for successful work in teaching public school music.

(c) Normal Class—Miss Farrar. This course is offered at the request of piano students, and is designed as preparation for the teaching of piano. One semester of Theory or Solfeggio is required for entrance.

(d) Piano Classes—Miss Farrar. Ensemble classes are maintained in piano, both duet and quartette work being done. The classes are free, and this work is required of all pupils sufficiently advanced.

(e) String Classes.—Miss Smith. As far as material offers practice is held in trio and quartette work, with performances in public on suitable occasions. Advanced pupils are coached in ensemble with piano.

## DOANE ACADEMY

Since its foundation, Denison has had a preparatory department. In 1895 it was given a separate organization and named in honor of the late Dr. William Howard Doane, who gave the splendid Academy Building. The Academy is now one of the strongest secondary schools in the Middle West and prepares not only for Denison but also for any American college or university.

While students of the Academy enjoy all the general advantages of connection with the larger institution, the school has its own endowment, its separate faculty, its own literary societies, athletics, school spirit, and social life.

The Academy is of peculiar advantage to those college students that are deficient in their entrance credits. Sometimes at a saving of considerable time in the combined college and preparatory courses, these deficiencies are made up in connection with the regular college work.

The Academy is a specially congenial place for those young men and women whose education is for any reason belated. They find here an atmosphere and social situation free from the embarrassment that might be experienced in the home schools. The Academy also meets admirably the requirements of those parents who desire better advantages than the local schools afford.

A copy of the catalogue and full information will be gladly sent upon application. Address H. R. HUNDLEY, Granville, Ohio.



## THE SOCIETY OF THE ALUMNI

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MR. SAMUEL B. BRIERLY, '75  
106 North LaSalle St., Chicago, Ill.

*Vice-President*

LORENA WOODROW BURKE, '06  
Pittsburgh, Pa.

*Secretary-Treasurer*

PROF. KIRTLEY F. MATHER, '09  
Granville, Ohio

Graduates of the University become automatically members of the Society of the Alumni. Former students of the Granville institutions, who are not graduates, are received into associate membership. This society was founded June 28, 1859, William P. Kerr, '45 being the first President. The main object of the Society's existence has been to promote the interests of *Alma Mater*. It has been especially prosperous during the last decade and is recognized as one of the strong adjuncts of the University. It maintains a Quarterly Bulletin, edited and published at Chicago, Ill., by the President of the Society. The annual meeting is held on Tuesday afternoon preceding Commencement Day at 2:30 o'clock.

Denison clubs composed of members and associates of this Society have been organized in many of the chief cities of the United States, and a few in foreign lands where Denison graduates are working. These clubs have been established in the following localities—New York City, Washington, D. C., Rochester, Buffalo, Cleveland, Toledo, Detroit, Dayton, Springfield, Ohio, Cincinnati, Columbus, Seneca County, Ohio, Chicago, Minnesota, Missouri Valley, Colorado, San Francisco, Southern California, Japan and West China.

## Degrees Conferred in 1920

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Frederic Tower Galpin, Doctor of Divinity  
Franklin Wait Sweet, Doctor of Divinity  
William Hannibal Johnson, Doctor of Humane Letters

### MASTER OF ARTS

Everett Parker Johnston                      Eri Jay Shumaker

### BACHELOR OF ARTS

Merrill A. Nelson	Mary Helen Jardine
Charlotte I. Baker	Lois Ruth Means
Ava Ballou	Thelma E. Overturf
Charity Collette Carman	Pauline M. Prichard
Laura Teresa Craytor	Garnet Schiedt
Mary Elizabeth Hazlett	Mary Elizabeth Weston
Lelah Houser	

### BACHELOR OF PHILOSOPHY

Dana M. Albaugh	Paul E. Pendleton
Ernest Bodenweber	Herman Ward Quartel
Leon M. Bower	Harold Hall Rhoades
Arthur Raymond Cawmer	Dean H. Rosensteel
Arthur Wright Jones	Herman G. Spencer
Chester Leroy Klein	Paul Spurgeon Tracy
George Carlton McConnaughey	Leslie Bennett Tribolet
John Edward McConnaughey	Mabel Byrd
William F. Meredith	Dorothy G. Campbell
Wilkie Osgood Moody	Elizabeth Louise Collins
Leigh McClung Nisbet	Mary Corpening
Charles Homer Nixon	Ruth Irene Guttery
Robert Paul Nixon	Louise Elizabeth Hamblen
David Edward Owen	Elizabeth Mary Jones
Melba Barrington Levering	Gladys Marion Skevington
Gladys Jeanette Miller	Ruth Catherine Spencer
Grace B. Moody	Elsie Deane Taylor
Laura Price	Helen Vandebark
Mary Ruth Sanford	Evelyn L. Work
Margaret B. Seasholes	

## BACHELOR OF SCIENCE

Arthur Talbot Bawden	Norman Louis Thomas
Edward Corey Boggs	Mark Swisher
William L. Carstensen	Edgar William Thompson
Marion Donald Coulter	Roush Rankin Vance
Russel A. Currin	Charles Langdon White
Haller Gent Curtis	Robert Edward Wilkin
Clarence Heskett	George Stuart Wolff
Walter C. L. Hilscher	Harold Wright Woodrow
Burt Taylor Hodges	Helen Jane Armstrong
Amel Rhodes Hotchkiss	Dorothy Bradford Cheney
Richard Harris Howe	Marion Noville Gibbons
Earl James Jenkins	Mae Clifton Graham
Sidney Jenkins	Eleanor Montgomery Johnson
Robert Kinnaird Johnson	Dorothy Catharine Leslie
Arthur George McQuate	Mary Elizabeth Long
Eugene Wayne Martz	Alice Mariel Prickett
Carl Harvey Masteller	Edna Skidmore
James Franklin Roubeshush	Margaret Elizabeth Speicher
Charles Wilbur Scheib	Eather Weaver
Claude Hamilton Smith	Dorothy Wickenden

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Honors and Prizes Awarded in 1920

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## ELECTION TO MEMBERSHIP IN PHI BETA KAPPA

Arthur Talbot Bawden, '20	Ava Ballou, '20
Burt Taylor Hodges, '20	Louise Elizabeth Hamblen, '20
Richard Harris Howe, '20	Laura Teresa Craytor, '20
Leslie Bennett Tribolet, '20	Grace B. Moody, '20
Charles Langdon White, '20	Garnet Schiedt, '20
Robert Leland Case, '21	Esther Weaver, '20
David Ole Voss, '21	Louise G. Brecht, '21

THE GILPATRICK SCHOLARSHIP FOR EXCELLENCE IN MATHEMATICS  
Esther Weaver

## THE HARMON FRESHMAN LATIN PRIZE

Vinton Rowland Shepard  
Lois Marcella Carson, Honorable Mention

## HONORS IN HISTORY

Grace B. Moody

## MEDAL FOR EXCELLENCE IN INTERCOLLEGIATE DEBATE

Dana M. Albaugh

## THE SAMSON TALBOT PRIZES IN BIBLE READING

Theodore F. Adams, First

Forest Ashbrook, Second

## THE LEWIS CONTEST PRIZES

Debate

Dana M. Albaugh

Franklin

Oration

Alvah Shumaker

Franklin

Essay

Leslie Bennet Tribolet

Calliopean

Declamation

H. B. Butcher

Calliopean

# Students in Granville and Shepardson Colleges

## GRADUATE STUDENTS

### CANDIDATES FOR MASTER'S DEGREE

Moore, Dwight M., Botany	Zanesville
Rupp, Edson Coldren, Mathematics	Granville
Sheets, Rowland Alfred, Mathematics	Granville

### UNCLASSIFIED

Crawford, Raymond N., English	Granville
Kawai, Itsuji, English	Toyohasi, Japan

### SENIOR CLASS

Bernard David Adams, Sc.	Granville
Earl Frederick Adams, Cl.	Brooklyn, N. Y.
Theodore Floyd Adams, Cl.	Brooklyn, N. Y.
Charles Garner Ashbrook, Ph.	Granville
Milan Forest Ashbrook, Ph.	Granville
Carrol Leslie Benoy, Sc.	Mt. Vernon
Charles Verne Bowen, Sc.	Granville
Robert Leland Case, Cl.	Granville
Rinaldo LaRue Cober, Ph.	Williamsport, Pa.
Dorence Sheldon Cowles, Sc.	Ostrander
Paul Frederick Cressey Ph.	Dayton
Lawrence Wilbur Curl Sc.	Urbana
Manning Skinner Daniels, Sc.	Pomeroy
Charles Norman Dold, Ph.	Norwood
John Franklin Donnelly, Sc.	Bucyrus
Harold Draut, Sc.	Middletown
Philip Friend Dye, Sc.	Indianapolis, Ind.
Gordon David Hamel, Ph.	Cleveland
Wilbert Raymond Hemmerly, Sc.	Lovell, Wyoming
Lawrence George Hollinger, Sc.	Massillon
Rozelle Parker Johnson, Cl.	Parkersburg, W. Va.
Carl Henry Koeker, Jr., Sc.	Dayton
John Robert Lechner, Ph.	Poughkeepsie, N. Y.
Charles Sumner McCann, Sc.	Dayton
Thomas Francis McMahon, Sc.	Farmington, Ill.
Marius C. A. Nielsen, Sc.	Copenhagen, Denmark
Samuel Trumper Noland, Ph.	London

John Marshall Price, Ph.	Chicago, Ill.
Walter A. Reese, Sc.	Middletown
John Lawyer Rose, Sc.	Granville
Carl Seibel, Sc.	Norwalk
Alvah Manora Shumaker, Cl.	New Castle, Pa.
Herbert C. Smith, Ph.	Toledo
Albert Edward Staniland, Sc.	Ambridge, Pa.
Corwin Sutton, Sc.	Attica
Forrest Damon Swigart, Sc.	Morrill
David Ole Voss, Cl.	Toledo
Helmer Lewis Webb, Ph.	Granville
Ford Richardson Weber, Sc.	Toledo
William Frederick Windle, Sc.	Newark
Charles F. Wood, Sc.	Williamsburg, Ky.
Paul Gordon Wood, Ph.	Ottawa, Ill.
James Carrol Wright, Cl.	Granville
Tsune Chi Yu, Ph.	Tientsin, China

Dorothy Angevine, Cl.	Pataskala
Louise Gretchen Brecht, Sc.	Erie, Pa.
Ellen Burns, Ph.	Hamilton, N. Y.
Marjorie Cockrum, Cl.	Evansville, Ind.
Gladys Currin, Ph.	Steelton, Pa.
Louise Dickey, Sc.	Mansfield
Caroline Easley, Ph.	Greenville, S. C.
Annetta Byers Eldridge, Ph.	Franklin
Elizabeth Fern Evans, Ph.	Granville
Theresa Gordon Folger, Ph.	Dayton
Dorothy Funk, Ph.	Oak Park, Ill.
Helen Gholson, Sc.	Cincinnati
Frances H. Grogan, Ph.	Parkersburg, W. Va.
Florence Grubb, Sc.	Johnstown
Ethel Hobart, Sc.	Granville
Cornelia Howell, Sc.	Granville
Sarah Margaret Jardine, Ph.	Chillicothe
Ethel Lyon Jones, Ph.	Granville
Irma Grace Jones, Sc.	Cincinnati
Bertha Marjorie Knapp, Sc.	Greenfield
Grace Edgerton McCune, Sc.	Granville
Harriet Livingston Mather, Sc.	Fayetteville, Arkansas
Clara Louise Olney, Ph.	Waltham, Mass.
Katherine Louisa Parks, Cl.	Minonk, Ill.
Ruby Marion Robinson, Sc.	McConnellsville
Myrtle Edna Shipley, Sc.	Centerburg

Helen Lenore Shumaker, Ph.	New Castle, Pa.
Gertrude Althea Smith, Ph.	Cleveland
Olive Maude Sutton, Cl.	Canton
Eva Marie Thomas, Ph.	Granville
Grace Van Kirk, Cl.	Owatonna, Minn.
Mildred West, Cl.	Horicon, N. Y.
Fern Curry Wheeler, Sc.	Portsmouth

## JUNIOR CLASS

Robert W. Abernethy, Ph.	Kansas City, Mo.
Ralph Haynes Barney, Sc.	Dayton
Richard Richards Barrington, Sc.	Granville
Carl Henry Biefeld, Sc.	Granville
Ralph H. Bowen, Ph.	Canton
Herbert L. Bowman, Sc.	Gambier
William Emerson Burke, Ph.	Granville
Herbert Borton Butcher, Ph.	Camden, N. Y.
Charles Harrison Carver, Ph.	Lakewood
Thomas Vassar Caulkins, Jr., Sc.	Factoryville, Pa.
Howard E. Claggett, Sc.	Newark
Charles Augustus Cooper, Jr., Ph.	Dayton
Carey Cronis, Sc.	Bucyrus
Ferdinand Howe Dalrymple, Sc.	Bedford
John W. Ehrle, Sc.	Toledo
Eugene L. Exman, Ph.	Blanchester
Donald R. Fitch, Ph.	Chicago, Ill.
Robert Wendell Frederick, Ph.	Wheeling, W. Va.
George Herman Gleiss, Sc.	Detroit, Mich.
Harold Witter Haggard, Sc.	Wolfeboro, N. H.
Clifton Wallace Hall, Ph.	Union City, Ind.
Harry McMillan Hayes, Ph.	Mt. Vernon
Clarence B. Homberger, Sc.	Sandusky
Frank Pierce Jones, Sc.	Granville
Lewis Stanley Jordan, Sc.	Bucyrus
Paul Albert Knoedler, Sc.	Zanesville
Glenn Kenneth Marquay, Cl.	Lynn, Mass.
Ralph William Mead, Sc.	Dayton
Marcus Oliver Orr, Sc.	Thornville
Thomas Howard Peterson, Sc.	Chicago, Ill.
Eugene Field Pfanner, Sc.	Dayton
Harold Auburn Pieffer, Sc.	Columbus
Robert Rettig, Sc.	Middletown
Edwin Lincoln Roe, Sc.	Gilbert
Raymond Eugene Schaad, Sc.	Millersport

Henry Craig Seasholes, Sc. ....	Granville
Lawrence Eugene Smith, Ph. ....	Cleveland
Charles Bartlett Suvoong, Sc. ....	Shanghai, China
Adolph Frank Talbot, Ph. ....	Tiffin
Eddie Myron Tomlinson, Ph. ....	Mt. Lookout, W. Va.
Willard F. Topping, Sc. ....	Morioka, Japan
Halford E. Whitacre, Sc. ....	Bowling Green
Harold Leroy Wilson, Sc. ....	Elyria
Morna Leo Adams, Ph. ....	Columbus
Alice Marjorie Allen, Ph. ....	Cortland, N. Y.
Eva Mildred Allen, Ph. ....	Cortland, N. Y.
Sarah Vernita Allison, Ph. ....	Cambridge
Isabel Ruth Anderson, Ph. ....	Toledo
Coral Margaret Backus, Ph. ....	Warren
Thelma Baker, Sc. ....	Johnstown
Beulah Lucinda Beard, Sc. ....	Marion
Helen C. Beeney, Sc. ....	Granville
Marguerite Olivet Boss, Ph. ....	Newark
Mary Viola Boyer, Sc. ....	Library, Pa.
Mary Margaret Bruce, Sc. ....	Garrettsville
Opal Calhoun, Ph. ....	Ostrander
Frances Isabelle Carney, Sc. ....	Wichita, Kans.
Helen Elizabeth Cheney, Cl. ....	Superior, Wis.
Helen L. Chrysler, Sc. ....	Shepard
Odette Clarenc, Ph. ....	Dijon, France
Sarah Elizabeth Clark, Ph. ....	Dayton
Madeleine Anne Marie Colombet, Ph. ....	Nantes, Loire, France
Frances Cromer, Cl. ....	Wheaton, Ill.
Sara Josephine Darrow, Ph. ....	Granville
Dorothy Daub, Ph. ....	Trenton
Beulah Irene Doolittle, Ph. ....	Torrington, Conn.
Miriam Galloway, Sc. ....	Xenia
Waneta Guttery, Cl. ....	Lincoln, Ill.
Ella Grace Howell, Sc. ....	Granville
Katherine Hunt, Sc. ....	Dayton
Frances Christina Innes, Cl. ....	Chicago, Ill.
Letha Cornelia Jackson, Ph. ....	Granville
Mildred Hall Jenkins, Ph. ....	Willard
Lois May Jones, Ph. ....	Keuka Park, N. Y.
Frances King, Sc. ....	Mountain View, Okla.
Lelia Jane Loveless, Sc. ....	Carlinville, Ill.
Thelma Elizabeth Mazey, Ph. ....	Newark
Elva Morris, Ph. ....	Youngstown



Evangeline Nellis, Sc.	Warren
Elizabeth Frances Nicholson, Ph.	Cambridge
Violet Eunice Parks, Cl.	Minonk, Ill.
Edna Patterson, Sc.	Columbus
Grace Jenness Ruhl, Sc.	Pomeroy
Ella June Schaad, Ph.	Millersport
Marjorie Elizabeth Schairer, Ph.	Cambridge
Marguerite E. Schulte, Sc.	East Cleveland
Marian Simpson, Ph.	Oak Park, Ill.
Mary Fisler Smalley, Ph.	Clarion, Pa.
Opal E. Stanforth, Cl.	Granville
Anna Lois Teeter, Sc.	Dayton
Ruth H. Twining, Sc.	Loudonville
Ann Lillian Vinson, Ph.	Mansfield
Ruth Weisenbarger, Ph.	Greenville
Edith Weston, Sc.	Beaver Dam, Wis.
Florence Beatrice Whitacre, Cl.	Bowling Green
Leona V. Wiggins, Ph.	Chicago, Ill.
Letha Claire Wince, Ph.	Newark
Grace Camilla Wolfe, Sc.	Granville
Margery Young, Sc.	Toledo
Meridith Agnes Young, Sc.	Toledo

## SOPHOMORE CLASS

Walter David Albaugh, Ph.	Dayton
Herbert Newton Bawden, Sc.	Granville
Gilbert William Bell, Ph.	Cambridge
George Wayland Bennett, Ph.	Philadelphia
Elmer Bergman, Sc.	Sandusky
Marshall Best, Sc.	Xenia
Fred T. Brien, Sc.	Cherry Valley, N. Y.
Richard B. Calvert, Sc.	Houma, La.
Stuart Cammett, Ph.	Minneapolis, Minn.
David Abbot Chambers, Sc.	Granville
Edwin George Chambers, Jr., Sc.	Cincinnati
Burton Chandler, Ph.	Norwalk
Ralph C. Clark, Sc.	Mt. Sterling
Roger A. Crane, Cl.	Cincinnati
Edmonston J. Davis, Sc.	Hammond, Ind.
John Dudley Dawson, Sc.	Haskins
Quincy Harold Dawson, Sc.	Coshocton
Charles Deeds, Sc.	Dayton
Ricardo Dussan, Sc.	Baraya, Huila, Colombia, S. A.
Clifford F. Edwards, Sc.	Newark

Ralph Edgar Foss, Sc.	Chicago, Ill.
William H. Gebhart, Sc.	Fresno
Carroll Brent Griffin, Sc.	Granville
Ralph Julius Groll, Ph.	Wapakoneta
John Halko, Sc.	Massillon
Herbert Condit Hall, Ph.	Cleveland
Fred C. Halteman, Sc.	Dayton
J. Mark Hanna, Sc.	Huntsville
Eugene Harold Hanson, Sc.	Newark
Albert Theodore Helbing, Ph.	Toledo
Ralph M. Hendricks, Ph.	Dayton
H. Leslie Hicks, Ph.	St. Cloud, Minn.
John Edward Hutchins, Cl.	Granville
Howard B. Jefferson, Cl.	Norwalk
William Jenkins, Sc.	Cambridge
David Lee Johnson, Ph.	Warren, Pa.
August F. Jones, Sc.	Cincinnati
Clyde E. Keeler, Sc.	Marion
Frank Gilbert Keenan, Sc.	Newark
Spofford Kimball, Sc.	Dayton
Gerald Munsell Lane, Sc.	Springfield
Willis Edward Laws, Sc.	Bethesda
Kenneth Ledman, Cl.	Huntington, Ind.
Lewis Don Leet, Ph.	Cleveland
Herschel Bernhard Lemon, Sc.	Hillsboro
Howard Lindemann, Ph.	Newark
Edward Grant McCann, Sc.	Zanesville
Harold G. Marqua, Sc.	Norwood
H. Kenneth Masteller, Cl.	Mt. Vernon
Herbert Ray Masteller, Ph.	Mt. Vernon
D. Seldon Mathews, Sc.	Hubbard
John Lewis Maurer, Sc.	Fresno
Leroy Harold Mayes, Cl.	Lincoln, Neb.
Charles Mears, Cl.	Zanesville
William Howard Norris, Cl.	Granville
Charles E. Olney, Ph.	Waltham, Mass.
Frank J. Olney, Sc.	Waltham, Mass.
Raymond Oxrieder, Sc.	Granville
Edgar V. Pendleton, Sc.	Granville
William George Peoples, Sc.	Toledo
Harold Eugene Perry, Sc.	Clyde
Joseph Sylvester Pomerson, Sc.	Sandusky
Fred Simon Poorman, Sc.	Trinway
Wentworth McKee Potter, Sc.	Newark

Lewis Whisler Prine, Sc.	Hillsboro
William Hosler Rhoades, Ph.	Toledo
Gordon Bates Ringgold, Cl.	Northboro, Mass.
Charles Roadarmel, Ph.	Haskins
Merlyn J. Robertson, Sc.	Columbus
Albert Nelson Sayre, Sc.	Granville
Herbert F. Schneider, Sc.	Dayton
Russell M. Smith, Sc.	Newark
William Howard Smith, Sc.	Massillon
Willis Spencer, Sc.	New Straitsville
Williard B. Stone, Sc.	Springfield
Richard Morrison Tilton, Sc.	Cambridge
James Russell Trittipio, Sc.	Newark
Thomas Budd Van Horne, Ph.	Franklin
Milton L. Watts, Sc.	Toledo
Arthur Folsom Weston, Sc.	Beaver Dam, Wis.
Kenneth Wildman, Sc.	Norwalk
Willis Heglor Willis, Cl.	Washington C. H.
Frank Leland Windle, Sc.	Newark

Elizabeth Allen, Ph.	Piqua
Elizabeth Barbour, Ph.	Chicago, Ill.
Helen Lindsay Bawell, Cl.	Washington, D. C.
Nannette Booher, Ph.	Alpha
Nellie Vera Brown, Sc.	Haskins
Margaret Miles Burt, Ph.	Huntington, W. Va.
Edith Lucile Campbell, Ph.	Utica
Alice Leona Carter, Ph.	Trenton, Ill.
Loraine Caul, Ph.	Ames, Iowa
Sara Crist, Ph.	Newark
Florence Dwinell Daniels, Ph.	Fitchburg, Mass.
Ethel G. Davis, Cl.	Boulder, Colo.
Delta Dietz, Cl.	Richwood, W. Va.
D. Helen Dickinson, Sc.	St. Catherines, Ontario, Canada
Harriet Dobson, Sc.	Evanston, Ill.
Mary Emma Earnshaw, Ph.	Hillsville, Pa.
Margaret Edmondson, Ph.	Parkersburg, W. Va.
Florence Cornelia Ellis, Ph.	Newark
Ethel Geneva Ellison, Ph.	West Union
Nellie A. Erway, Sc.	Olean, N. Y.
Alma Evans, Ph.	Grafton, W. Va.
Amy Luella Firestone, Ph.	Spencer
Mary Eleanor Floyd, Ph.	Henderson, Ky.
Margaret Forsythe, Sc.	Alexandria

Marion Garland, Ph.	Pittsburgh, Pa.
Thelma Ruth Gibbs, Ph.	Canton
Maude E. Gill, Sc.	St. Catherines, Ontario, Canada
Dorothy Regina Graves, Ph.	Newark
Reda Wilhelmina Gray, Ph.	Newark
Mary Gracil Green, Sc.	Pataskala
Ella Marguerite Hahn, Ph.	Toledo
Emily Elizabeth Hampshire, Cl.	Newark
Marian Crew Hanna, Ph.	Zanesville
Lois Elizabeth Hart, Sc.	Ravenna
Anna Laura Haynes, Sc.	Newark
Ruth Gladys Hendricks, Sc.	Dayton
Lillis A. Howard, Sc.	Tecumseh, Mich.
Viola Christine Hultin, Cl.	Buffalo, N. Y.
Ellen Humphrey, Ph.	Belleville, W. Va.
Margaret Sophia Hunter, Cl.	Urbana
Esther Josephine Jilson, Ph.	Beaver Dam, Wis.
Gladys Jones, Ph.	Keuka Park, N. Y.
Dorothy Joy Kinney, Sc.	Denver, Colo.
Irlene Rosetta Kissling, Sc.	Urbana
Edith May Kurtz, Sc.	Kalamazoo, Mich.
Florence Ladd, Ph.	Bowling Green
Lillian Lindrooth, Ph.	Newark
Margaret Linehan, Cl.	Newark
Julia Elizabeth Loomis, Ph.	Buffalo, N. Y.
Harriette K. McCann, Ph.	Dayton
Catherine M. McClure, Ph.	Pelee Island, Ontario, Canada
Grace Evalyn McCrillis, Cl.	Norwalk
Ellen Elston McCune, Sc.	Granville
Dorothy Riggs McCutcheon, Ph.	Leesburg, Va.
Esther McFarland, Ph.	Mansfield
Marion McQuate, Ph.	Litchfield
Effie Mapel, Sc.	Burton, W. Va.
Thelma Lucille Marshall, Sc.	Zanesville
Edith Louise May, Ph.	McDonald, Pa.
Mildred Alfretta Mayer, Ph.	Newark
Norma Ethel Meyer, Ph.	Toledo
Jane Ellen Munn, Ph.	Monroe, Mich.
Helen Neel, Ph.	Chicago, Ill.
Minerva Elizabeth Olney, Ph.	Waltham, Mass.
Mary Hannah Packer, Cl.	Toulon, Ill.
Blanche Eliza Parks, Ph.	Logansport, Ind.
Mabel Patterson, Ph.	Granville
Burnice A. Perry, Ph.	Chicago, Ill.

Eva Jane Price, Ph	Granville
Frances Morton Priest, Cl	Sturgis, Mich.
Alice Louisa Randall, Sc	Charleston, W. Va.
Frances Hurlbut Ray, Sc	Newark
Esther Louise Reese, Ph	Newark
Helen B. Robinson, Sc	Cambridge
Mary Esther Stark, Cl	Alexandria
Mary Wood Stasel, Ph	Newark
Mildred Louise Swedenborg, Ph	Ashtabula
Emily Taylor, Ph	Clarksburg, W. Va.
Mrs. Iva Tomlinson, Cl	Mt. Lookout, W. Va.
Marguerite Trifolet, Sc	Morgan Park, Ill.
Violet M. Webb, Sc	Granville
Winifred Eaton Webb, Cl	Edmonton, Alberta, Canada
Katherine Louise Whitnum, Ph	Warren
Mary Julia Whittington, Ph	Xenia
Dorothy Elizabeth Wilson Sc	Newark

## FRESHMAN CLASS

Charles Edwin Allen, Sc	Newark
Hugh Amos, Sc	Cambridge
Stewart Anderson, Sc	London
Lathrop W. Arnold, Sc	Oak Park, Ill.
Richard B. Austin, Ph	Chicago, Ill.
Lawrence Edward Baldwin, Ph	Mt. Vernon
Vernon Judson Barker, Ph	Dayton
Frederick G. Bartholomew, Sc	Perry
Herrick Talbot Bawden, Ph	Granville
Richmond R. Becker, Ph	Dayton
Sam R. Becker, Sc	Dayton
William DePeyster Berry, Ph	Hammond, Ind.
Charles Myers Billman, Sc	Dayton
Richard Dodson Bovington, Ph	Cleveland
John Bernie Boyd, Sc	Newark
Philips Bentley Boyer, Ph	Library, Pa.
Ermel Elden Branstetter, Ph	Hammond, Ind.
Floyd Bratt, Sc	Clarence Center, N. Y.
Ernest Carhartt Brelsford, Ph	East Cleveland
Linden Brooks, Cl	Middletown
Charles Johnson Browne, Ph	Newark
Ruel Thayer Brown, Ph	Toledo
John Theodore Burdick, Ph	Lansing, Mich.
Clifford Adelbert Byers, Sc	Westbrook, Minn.
Eric V. Calhoun, Sc	East Liverpool

William Clark Calvert, Sc.	Houma, La.
James Carper, Ph.	Lititz, Pa.
Herman Carstenson, Sc.	Port Clinton
William Castle, Sc.	Alexandria
John Husted Chamberlain, Ph.	Granville
Cheng Chang, Ph.	Nankai, Tientsin, China
Herman Stanley Cherry, Ph.	Columbus
Okey W. Costilow, Cl.	Clarksburg, W. Va.
Norton R. Cotterill, Ph.	Dayton
Robert Craven, Sc.	Dayton
George Merle Cravener, Cl.	Indiana, Pa.
Burgess Cuzner, Sc.	Dayton
Darleigh Edgell Dean, Ph.	Richwood, W. Va.
Ernest Wayne Dean, Sc.	Sandusky
Allen T. De Lano, Ph.	Fort Dodge, Ia.
Alfred Topping Dobson, Sc.	Evanston, Ill.
Charles Eyre Doster, Sc.	Harveysburg
John Walton Drake, Ph.	Ft. Thomas, Ky.
John Ducro, Ph.	Ashtabula
Robert Lemon Eastman, Sc.	Fredericktown
Harold E. Enyeart, Sc.	Dayton
Alfred Cherrington Evans, Ph.	Jackson
Carl Harkness Fauley, Ph.	Roseville
Keith Ruliffson Fawcett, Sc.	Vesta, Minn.
Charles E. Fisher, Ph.	Massillon
James Clarence Fitch, Sc.	Chicago, Ill.
Willard Forsythe, Sc.	Cambridge
Robert W. Frey, Sc.	Dayton
Lyman Armentrout Garber, Ph.	Mt. Vernon
Ralph P. Garrison, Ph.	Dayton
Robert Hildreth Garrison, Ph.	Newark
Arnold Frederick Gebhart, Ph.	Miamisburg
Theodore Parker Gnagey, Ph.	Ashland
Elroy Simon Guckert, Sc.	Sandusky
Alfred S. Haas, Sc.	Dayton
Eugene Ewing Harlow, Ph.	Newark
Paul Hagerty Hazlett, Cl.	Newark
Leonard Heaton, Sc.	Lansing, Mich.
Jasper P. Hendershot, Ph.	Blanchester
Robert Louis Henderson, Sc.	Norwalk
Elda Albert Herr, Sc.	Acme, Mich.
David Hirsch, Sc.	Newark
Kilburn K. Holt, Cl.	Reading, Mass.
Henry Kendrick Holt, Sc.	Reading, Mass.

Truman D. Hoover, Sc.	Johnstown
Robert Elmer Hopkins, Sc.	Granville
Charles Stephen Huddleson, Ph.	Worthington
Bernard Lewis Hundley, Sc.	Granville
Jamie T. Irvine, Ph.	Zanesville
Ernest T. Johnson, Ph.	Newark
Melvin Bruce Johnson, Ph.	Brockport, N. Y.
Warren Johnston, Sc.	Granville
Alfred K. Jones, Sc.	Granville
Clifford Jones, Sc.	Bucyrus
Edward William Jones, Ph.	Middletown
Thomas Felix Jones, Sc.	Newark
Bernard Keyt, Ph.	Columbus
George Thomas Kidder, Ph.	Klondyke
Daniel Phillips King, Sc.	Mountain View, Okla.
George B. King, Ph.	Detroit, Mich.
Donald Kreager, Sc.	Alexandria
William Gordon Kuster, Sc.	Newark
Victor Ladeveze, Cl.	Providence, R. I.
Donald Lane, Cl.	Springfield
Charles Emerson Lang, Ph.	Newark
William Newton Leasure, Sc.	Middletown
Wilbur R. Leiser, Ph.	Miamisburg
Seward Davies Legge, Sc.	Newark
William Houghton Leslie, Sc.	Granville
Miles Wallingford Levering, Sc.	St. Marys
David William Lewis, Sc.	Columbus City, Iowa
John Elijah Linebaugh, Sc.	Dayton
Edwin T. R. Lonsdale, Sc.	Granville
Russell Weeter Lyman, Ph.	Elyria
William McLain, Sc.	Granville
Miles S. Masters, Cl.	Granville
William Green Mather, Jr., Sc.	Granville
Maurice Arthur Mead, Sc.	Dayton
Calvin Meck, Ph.	Bucyrus
J. Hobart Miller, Sc.	Detroit, Mich.
Glenn Millhouse, Sc.	Nelsonville
Guy Carleton Mitchell, Jr., Sc.	Hamilton
Miner Lee Mitchell, Sc.	Newark
George Morgan, Sc.	New Castle, Pa.
Isami Nakamura, Ph.	Yokosuka, Japan
Frederick Nott, Sc.	Marietta
Clarke Olney, Sc.	East Orange, N. J.
Ernest Tuttle Owen, Sc.	Granville

Glen Shurtleff Owen, Ph. ....	Columbus
Warner Beal Perkins, Sc. ....	Dresden
Julian Jay Petty, Sc. ....	Walworth, N. Y.
Joseph Dwight Powell, Ph. ....	Middleport
J. Ellis Powell, Sc. ....	Mount Gilead
William David Pritchard, Sc. ....	New Castle, Pa.
Lawrence Hoover Prugh, Ph. ....	Xenia
Harold A. Rosene, Sc. ....	Newark
Frederick William Sagebiel, Ph. ....	Dayton
James Sagebiel, Sc. ....	Dayton
Howard Schieber, Sc. ....	Bucyrus
Milton Schiller, Sc. ....	Sandusky
Fred Clifford Schmuck, Ph. ....	Ashland
Archie T. Schreiber, Ph. ....	Youngstown
Walter L. Schweikert, Sc. ....	Springfield
Franklin Rhoads Scott, Cl. ....	Newark
Edward Sebald, Ph. ....	Middletown
Vinton Rowland Shepard, Cl. ....	Wyoming
John Max Shepherst, Sc. ....	East Toledo
James Blue Sigler, Ph. ....	Mt. Vernon
Robert Smith, Ph. ....	Middletown
Ruland Leslie Smith, Sc. ....	Newark
Reed M. Snider, Sc. ....	Millersport
Raymond Snodgrass, Sc. ....	Xenia
Floyd Solida, Sc. ....	Wellington
Lionel Stahl, Ph. ....	Fredericktown
Edward Manning Steadman, Ph. ....	Granville
Livingston Taylor Steadman, Sc. ....	Granville
Charles E. Stoaks, Ph. ....	Seville
Edward Stotler, Ph. ....	Eaton
Ralph Burdette Stowell, Sc. ....	Newark
William H. Stuart, Ph. ....	New Castle, Pa.
Reber C. Stupp, Sc. ....	Dayton
Clifford B. Sturgeon, Sc. ....	Newark
Frank Stanley Taylor, Sc. ....	Newark
Orman G. Terry, Ph. ....	East Liverpool
Howard Thiele, Sc. ....	Dayton
Thomas Owen Treharne, Sc. ....	Dayton
Theodore Ralph Tribolet, Ph. ....	Morgan Park, Ill.
Heber Hicks Tullis, Sc. ....	Xenia
Otto Kennedy Vance, Cl. ....	West Union
Robert Wilson Vanderveer, Sc. ....	Middletown
Leonard K. Van Ness, Ph. ....	Hubbard
William Vogel, Ph. ....	Granville



Hsuan Wang, Ph.	Gih sien, Jing Chao, China
Victor G. Weaver, Ph.	Bowling Green
Ralph Weaver, Sc.	St. Louisville
Elmer Ketner Weikal, Sc.	Middletown
Edwin Chester Wellman, Ph.	Cleveland
Leland Wertz, Sc.	Fredericktown
James Whitacre, Sc.	Prairie Depot
Elbert Wildman, Sc.	Norwalk
Harold Meade Wiley, Sc.	Camp Dennison
Richard Willis, Sc.	Washington C. H.
Donald M. Wirthwine, Sc.	Cincinnati
John Eddie Wood, Cl.	Huntington, W. Va.
Albert William Wright, Ph.	Granville

Mildred Allington, Ph.	Northport, Mich.
Mary Thelma Alspach, Cl.	Newark
Vera May Ashley, Ph.	Cambridge
Jerrine Ashley, Cl.	Chicago, Ill.
Margaret Barber, Ph.	Oak Park, Ill.
Helen Barnes, Ph.	Granville
Margaret Brand, Ph.	Dayton
Dorothy Elinor Breeze, Cl.	Granville
Dorothy Munson Brelsford, Ph.	Zanesville
Ruth Brown, Ph.	Johnstown
Phyllis Cornelia Burkham, Ph.	Alexandria
Lois Marcella Carson, Cl.	Urbana
Esther Jane Cary, Ph.	Boston, N. Y.
Ruth Case, Ph.	Granville
Elizabeth Keyser Chambers, Cl.	Granville
Frances Ellen Chamberlin, Sc.	Granville
Frances Chappell, Ph.	Barnesville
Grace Eleanor Cleland, Ph.	Mt. Vernon
Marion Cook, Ph.	Granville
Lillian M. Coons, Ph.	Johnstown
Louise Crawford, Sc.	Frazeyburg
Ruth Elizabeth Crook, Sc.	Toledo
Geraldine Crow, Sc.	Niles
Edith Cummins, Ph.	Akron
Grace Norma Darling, Ph.	Zanesville
Gwendolyn Elizabeth Davies, Ph.	Newark
Rose Lillian Davis, Sc.	Hammond, Ind.
Lucile Marie Dodd, Ph.	Newark
Alleyne Howell Drake, Cl.	Huntington, W. Va.
Elizabeth DuBois, Ph.	Franklin

Evelyn Duff, Ph.	Canton
Thelma Irene Eastman, Sc.	Middlebourne, W. Va.
Eunice Hilton Fellman, Sc.	Milwaukee, Wis.
Blanche Fay Finley, Ph.	Chester, W. Va.
Hazel Idell Fisher, Ph.	Frazeysburg
Marjorie Forbes, Ph.	Union City, Pa.
Rose Irene Francis, Ph.	East Chicago, Ind.
Edna Marie Frick, Cl.	Norwood
Gertrude Fromm, Ph.	Newark
Charlotte A. Fulton, Ph.	Dayton
Margaret King Galloway, Sc.	Xenia
Ireta J. Goodrich, Ph.	Wellington
Erlene Green, Ph.	Pataskala
Amy Christine Greenfield, Cl.	Indianapolis, Ind.
Edna Griffith, Ph.	Newark
Ona K. Grunder, Ph.	Creston
Helen Hardesty, Ph.	Zanesville
Margaret Hawkins, Sc.	Canton
Edith Hilscher, Sc.	Canton
Veronica Hodges, Ph.	Buffalo, N. Y.
Ethel Winifred Holden, Sc.	Detroit, Mich.
Ruth Hovey, Sc.	New York, N. Y.
Elva Irene Hughes, Ph.	Newark
Kathryn Elspeth Husband, Sc.	Cleveland Heights
Elfreda Jessel, Ph.	Buffalo, N. Y.
Ruth C. Jones, Ph.	Toledo
Florence Kile, Ph.	Centerburg
Mildred Kilgore, Cl.	Canton
Alice J. Kinney, Ph.	Des Moines, Iowa
Marian Alger Kinney, Sc.	Denver, Colo.
M. Grace Knoedler, Ph.	Zanesville
Louise M. Koeker, Cl.	Dayton
Tsuruyo Komoriya, Ph.	Tokyo, Japan
Charlotte Marie Larsen, Cl.	Dayton
Lucile Lawyer, Cl.	Pataskala
Elizabeth Irene Leslie, Sc.	Granville
Agnes Mary Loretz, Sc.	Norwalk
Lois Mary Lusk, Sc.	Granville
Mildred Agnes McCalla, Ph.	Toledo
Colinne McClure, Ph.	Pelee Island, Ontario, Canada
Sara McConnell, Ph.	Newark
Anna McKenna, Ph.	Cleveland
Lucile McMinn, Ph.	Wheaton, Ill.
Lillian Belle Marquand, Cl.	Granville

Kathryn Sallee Mather, Sc.	Wyoming
Esther Adelaide Meyer, Sc.	Toledo
Althea V. Miller, Ph.	Pomeroy
Susan M. Miller, Ph.	Port Clinton
Marion Virginia Montgomery, Ph.	Newark
Eleanor Marion Myers, Ph.	Cleveland Heights
Helen M. Myers, Sc.	Erie, Pa.
Muriel Deming Myrick, Ph.	Philadelphia, Pa.
Helen Louise Oesper, Ph.	Cincinnati
Margaret Wilson Oesper, Sc.	Cincinnati
Mildred Louise Ogden, Ph.	Ashland, Ky.
Irene Ogle, Sc.	Marietta
Louise M. Peterson, Ph.	Chicago, Ill.
Kathleen Pettit, Ph.	Logan
June Phypers, Ph.	Cleveland
Mina Lillian Pletcher, Ph.	Newark
Mary E. Prechtel, Cl.	Norwalk
Nellie E. Powell, Ph.	Mt. Gilead
Margaret Prugh, Ph.	Xenia
Florence Reed, Ph.	Kenton
Helen J. Richard, Cl.	Mansfield
Dorothy Richards, Ph.	Granville
Margaret Richardson, Ph.	Oak Park, Ill.
Anne Mary Rodgers, Cl.	Newark
Mary Warner Rosebraugh, Ph.	Newark
Ruth Eloise Sanford, Ph.	Granville
Enid V. Smith, Ph.	Bellevue
Grace Ellen Snedecor, Ph.	Tecumseh, Mich.
Marjorie Spicer, Ph.	Akron
Marjorie Stanton, Ph.	Oak Park, Ill.
Mary Overholt Stephens, Ph.	Mooresburg, Pa.
Josephine M. Stratman, Ph.	Bellevue, Pa.
Melvina Summers, Cl.	Marion
Zona Adelaide Tavener, Ph.	Newark
Edna B. Taylor, Sc.	Croton-on-Hudson, N. Y.
Laura Charlotte Thomas, Ph.	Chicago, Ill.
Janice Jean Thompson, Sc.	Granville
Mary Louise Tuttle, Ph.	Granville
Hilah Dorothy Vorhees, Ph.	Columbus
Mabel Warner, Ph.	Granville
Velma Corrine Weisenbarger, Ph.	Greenville
Fannie Dorothea Wellman, Cl.	Cleveland
Eleanor Frances West, Ph.	Cleveland
Marion Estella Wilkinson, Cl.	Norwalk

Katherine Williams, Ph.....	Hammond, Ind.
Gertrude Wilson, Sc.....	Dayton
Martha E. Wooden, Cl.....	Mansfield
Helen L. Yeakel, Cl.....	Chicago, Ill.

## UNCLASSIFIED

Edwin J. Buder.....	Sandusky
Nelson B. Buehrer.....	Toledo
Wilbur H. Cash.....	Cambridge
Mark J. Cook.....	Hammond, Ind.
Raymond M. Deem.....	Dayton
Rufus McKinley Dodrill.....	Webster Springs, W. Va.
Paul J. Durliat.....	Weston
Harry Foot.....	Coshocton
Orman Tellier Franke.....	Walworth, N. Y.
Louie S. Gaines.....	Springfield
Arthur Irwin Gibson.....	Cambridge
Clarence N. Hineline.....	Port Clinton
Gerald Kahler.....	Youngstown
Seishi Katsumi.....	Seki, Gifu-ken, Japan
Arthur C. Kneibler.....	Binghamton, N. Y.
Paul Dempcy Knight.....	Urbana
Paul Louis Koehler.....	Hamilton
Newell H. Lake.....	Toledo
Philip Haynes Lewis.....	Cleveland
Ralph Gordon Lusk.....	Granville
John Paul MacKay.....	Birmingham, Mich.
Ray Norris McCann.....	Kearney, Neb.
Thomas Addison McCann.....	Dayton
Malcolm Lamson McInnes.....	Toledo
Vinton R. McCoy.....	Akron
Stephen Miller.....	Toledo
Don Emmett Neeley.....	Newark
Carl T. Nessley.....	Pickerington
Alonzo Quinn.....	Longmont, Colo.
Gordon Rector.....	Pawtucket, R. I.
Claude Sharer, Jr.....	Bucyrus
Lewis Spellman.....	Newark
Lee Stark.....	Alexandria
Charles O. Starrett.....	Shadyside
Clarence Eugene Stockdale.....	Sandusky
Richard Swartzel.....	Dayton
Arnold Eudorous Turk.....	Brooklyn, Mich.
Chi Yen T'ung.....	Nan-kai, Tientsin, China

John Wade	Weston
Harold B. J. Wardlaw	Milford, Mich.
Halle Brundige Weiser	Waldo
Ward Whitcomb	Toledo
Gilbert N. Williams	Niles
Clifford Rohrer Williamson	Dayton

Nellie Isabelle Deam	Phoneton
Charlotte DeLano	Fort Dodge, Iowa
Mabel Margaret Guthrie	Zanesville
Margaret Hanna	Huntsville
Lucille Indicott	Norwalk
Helen Mildred Kiggins	Marietta
Katherine Kinney	Des Moines, Iowa
Josephine McInnes	Toledo
Sara Peterson	Alliance
Helen Louise Scott	Mount Vernon
Zephel Smailes	Trinway
Ruth Loretta Suitt	Cambridge
Marjorie Sutherland	Boulder, Colo.
Thelma Isabell Swedenborg	Ashtabula
Golda Loa Swinehart	Bowling Green
Esther Barbara Wenig	Haskins

# Conservatory of Music

DIPLOMAS, JUNE 1920

Rebecca Jury, Voice  
Ada Garnet Stout, Voice  
Gwladys Spencer, Voice

Bernice Irene Brown, Organ  
Elizabeth Fern Evans, Organ  
Laura Price, Organ

## CERTIFICATES

Leona Gertrude Myers

Helen Louise Stump

Nannette Jane Booher

## SENIOR CLASS

Cornelia Ellis, Voice.....	Newark
Ellen Humphrey, Piano.....	Belleville, W. Va.
Helen Lenore Shumaker, Organ.....	New Castle, Pa.
William Vogel, Organ and Piano.....	Granville

## UNCLASSIFIED

Adams, Morna Leo.....	Columbus
Adams, Theodore Floyd.....	Brooklyn, N. Y.
Allen, Eva Mildred.....	Cortland, N. Y.
Allington, Mildred.....	Northport, Mich.
Andrews, Dorothy E.....	Newark
Arnold, Lathrop W.....	Oak Park, Ill.
Atkin, Corrinne Louise.....	Hamilton
Baker, Thelma.....	Johnstown
Barre, Lucille.....	Centerburg
Bawden, Dorothea.....	Kavali, South India
Bearnes, Mary.....	Centerburg
Beaumont, Sarah.....	Newark
Bergold, Russell.....	East Cleveland
Bolen, Ruth.....	Coshocton
Boyer, Marie Viola.....	Library, Pa.
Brand, Margaret.....	Dayton
Breeze, Elinor Dorothy.....	Granville
Brelsford, Dorothy Munson.....	Zanesville
Brooks, Margaret Rachel.....	Granville
Brown, Eunice Crawford.....	West Union
Brown, Faith.....	Granville
Brown, Rose.....	Ferndale, Wash.
Brown, Ruth.....	Johnstown
Butte, Ruth.....	Newark

Campbell, Edith	Utica
Carney, Frances Isabelle	Wichita, Kansas
Case, Orval Gray	Granville
Caulkins, T. Vassar, Jr.	Caudersport, Pa.
Chamberlain, Margaret Aldrich	Granville
Chappell, Margaret Frances	Barnesville
Chrysler, Helen L.	Shepard
Church, Josephine Ellen	Van Wert
Clark Sarah	Dayton
Coons, Lillian M.	Johnstown
Crook, Ruth Elizabeth	Toledo
Cross, Mary Elizabeth	Alexandria
Crothers, Nina Belle	Geary, Okla.
Crow, Mary Geraldine	Niles
Crozier, Frances G.	Ann Arbor, Mich.
Curtis, Arthur	Granville
Curtis, Eleanor	Granville
Darling, Norma	Zanesville
Darrow, Mrs. Minnie Grace	Granville
Darrow, Sara Josephine	Granville
Daub, Dorothy	Trenton
Dean, Darleigh Edgell	Richwood, W. Va.
Deck, Mrs. Mary Mildred	Newark
Deck, Sonoma Lenore	Newark
Deming, Mary Frances	Granville
Dickinson, D. Helen	St. Catharines, Ontario
Donnelly, J. F.	Bucyrus
Drake, Alleyne H.	Logan, W. Va.
Draper, Bessie Doras	Newark
DuBois, Elizabeth	Franklin
Earnshaw, Mary Emma	Hillsville, Pa.
Eastman, Thelma Irene	Middlebourne, W. Va.
Ebaugh, Marion	Granville
Eldredge, Annetta	Franklin
Evans, Alfred C.	Jackson
Evans, Elizabeth Fern	Granville
Evans, Mrs. J. T.	Newark
Finley, Blanche Fay	Chester, W. Va.
Fisher, Hazel Idell	Frazeysburg
Franzell, Kathryn Mitchell	Pittsburgh, Pa.
Frederick, Robert W.	Wheeling, Va.
Frymote, Helen	Jacksontown
Garrison, L. O.	Newark
Glaunsinger, Margaret	Newark

Green, Gracil.....	Pataskala
Green, Lila Erline.....	Pataskala
Griffin, Beatrice Roxie.....	Granville
Gross, Paul Brickman.....	Bellevue
Grunder, Ona K.....	Creston
Hagmeier, Bess.....	Newark
Hague, Edith.....	Newark
Haines, Mary.....	Croton
Hampshire, Emily Elizabeth.....	Newark
Hannigan, Mrs. J.....	Newark
Hardesty, Helen.....	Zanesville
Haynes, Anna Laura.....	Newark
Hernandez, Milagros.....	Capiz, Capiz, P. I.
Hill, Kathryn Amelia.....	Alexandria
Hitchcock, Gordon.....	Newark
Hodges, Veronica M.....	Buffalo, N. Y.
Holden, Evelyn Grace.....	Detroit, Mich.
Holden, Ethel Winifred.....	Detroit, Mich.
Hopkins, Robert Elmer.....	Granville
Hosick, Irene.....	Granville
Howartt, Leo Edward.....	Newark
Howe, Mary Katherine.....	Granville
Husband, Kathryn E.....	Cleveland Heights
Indicott, Lucille M.....	Norwalk
Jackson, Ethel La Vere.....	Parkersburg, W. Va.
Jardine, Sarah Margaret.....	Chillicothe
Jefferson, Grace E.....	Granville
Jenkins, Mildred H.....	Willard
Johnston, Everett Parker.....	Granville
Jones, Irma Genevieve.....	Cincinnati
Jones, Lois May.....	Keuka Park, N. Y.
Jones, Mildred Katherine.....	Granville
Kastla, Ruth Pearl.....	Newark
Kelly, Helen H.....	Silvis, Ill.
Kiggins, Helen M.....	Marietta
Kile, Florence.....	Centerburg
King, Daniel P.....	Mountain View, Okla.
King, Frances.....	Mountain View, Okla.
Kinney, Alice J.....	Des Moines, Iowa
Kinney, Katherine.....	Des Moines, Iowa
Kinney, Marian Alger.....	Denver, Colo.
Kislingbery, Thelma.....	Johnstown
Knoedler, Grace.....	Zanesville
Komoriya, Tsuruyo.....	Tokyo, Japan



Kreager, Ruth	Alexandria
Kurtz, Doris	Granville
Kurtz, Eleanor	Granville
Larsen, Charlotte M.	Dayton
Latta, John D.	Granville
Latta, Lois	Granville
Latta, Margery G.	Granville
Latta, Mary E.	Granville
Leet, Lewis Don	East Cleveland
Lindrooth, Lillian	Newark
Lusk, Lela Belle	Granville
MacKay, John Paul	Birmingham, Mich.
Mapel, Effie	Burton, W. Va.
Marshall, Thelma	Zanesville
Massie, Mary Elizabeth	Edinburg, Va.
Matsteller, H. Kenneth	Mt. Vernon
Mather, Kathryn	Wyoming
Mather, Harriet	Fayetteville, Ark.
Mather, Mrs. Marie Porter	Granville
MacKay, John Paul	Birmingham, Mich.
McClure, Catherine	Pelee Island, Ontario, Canada
McClure, Colinne	Pelee Island, Ontario, Canada
McLain, Goldie	Granville
McLain, Mary D.	Granville
McQuate, Marion	Litchfield
Meyer, Esther Adelaide	Toledo
Miller, Althea	Pomeroy
Mitchell, Guy Carleton, Jr.	Hamilton
Montgomery, Marion	Newark
Moon, Franklin	Granville
Moon, Maria	Granville
Moore, Lucy	Pataskala
Myrick, Muriel D.	Philadelphia, Pa.
Neel, Helen	Granville
Nessley, Carl Tussing	Pickerington
Nunnally, Lillian Field	Newark
Oesper, Helen Louise	Cincinnati
Olney, Minerva Elizabeth	Waltham, Mass.
Owens, Robert Herbert	Zanesville
Parks, Blanche	Logansport, Ind.
Parks, Katherine	Minonk, Ill.
Parks, Violet Eunice	Minonk, Ill.
Patterson, Mabel	Granville
Pletcher, Mina Lillian	Newark

Prechtel, Mary Elizabeth.....	Norwalk
Priest, Frances Morton.....	Sturgis, Mich.
Randall, Alice Louisa.....	Charleston, W. Va.
Ray, Frances Hulbert.....	Newark
Reed, Florence.....	Kenton
Rehback, Marie.....	Newark
Rhoades, William H.....	Toledo
Richard, Helen J.....	Mansfield
Ringgold, G. B.....	Northboro, Mass.
Robinson, Helen.....	Cambridge
Rockwood, John Millard.....	Granville
Rogers, Bernard.....	Granville
Rohrer, Katherine Spencer.....	Granville
Rowland, Carrie.....	Johnstown
Rumsey, Mrs. Louis A.....	Newark
Sanford, Ruth Eloise.....	Granville
Schaad, Ella.....	Millersport
Scott, Helen Louise.....	Mt. Vernon
Sheck, Vera.....	Newark
Shepardson, Mrs. Leora Norris.....	Granville
Shreve, Gladys.....	Union City, Pa.
Silliman, Katherine.....	Granville
Smith, Enid V.....	Bellevue
Smith, Martha Jane.....	Granville
Spicer, Marjorie.....	Akron
Stanforth, Opal Lurea.....	Granville
Stanton, Marjorie.....	Oak Park, Ill.
Stasel, Mary W.....	Newark
Steiner, Emma Frances.....	Erie, Pa.
Stephens, Mary Overholt.....	Mooresburg, Pa.
Stevenson, Rosetta.....	Dayton
Stratman, Josephine.....	Pittsburgh, Pa.
Sutherland, Marjorie.....	Boulder, Colo.
Swanson, Paul.....	Granville
Swinehart, Golda.....	Bowling Green
Symons, Mrs. Daisy T.....	Newark
Tapper, Marie G.....	Dayton
Taylor, Edna Belle.....	Croton-on-Hudson, N. Y.
Thomas, Laura Charlotte.....	Chicago, Ill.
Thompson, Janice Jean.....	Newark
Thompson, Mary.....	Granville
Thornburg, Isyl.....	Milton, Ind.
Thunn, Charles Albert.....	Middletown
Topping, Willard.....	Morioka, Japan

Townsley, Marie	Granville
Towsley, Catharine	Grand Rapids, Mich.
Ullman, Kenneth	Granville
Webb, Winifred Eaton	Cleveland
Webster, Walter R.	Pittsburgh, Pa.
Weisenbarger, Velma	Greenville
Wellman, Frances D.	Cleveland
Wendelken, Rhea Mae	Newark
Wenig, Eather	Haskins
Wheeler, Fern C.	Portsmouth
Whittington, Mary Julia	Xenia
Wiggins, Leona V.	Chicago, Ill.
Wilkinson, Marion E.	Norwalk
Williams, Katherine	Hammond, Ind.
Wilson, Dorothy	Newark
Wince, Letha Claire	Newark
Wooden, Martha E.	Mansfield
Wright, Helen Smith	Coshocton
Wright, James Carroll	Granville
Wright, Stuart M.	New York, N. Y.
Young, Edith Marie	Granville

## Summary of Student Attendance

	Men	Women	Total
Graduate Students	5	...	5
Seniors	44	33	77
Juniors	43	57	100
Sophomores	83	85	168
Freshmen	170	122	292
Unclassified	44	16	60
Total in the Colleges	389	313	702
Conservatory of Music	34	161	195
Doane Academy	132	43	175
Total in the University exclusive of repetitions	522	410	932

## Index of Faculty and Officers

---

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Four-hour courses meeting at periods I, II, VI and VII omit Friday; at periods III and IV omit Monday. Three-hour courses at periods I and II omit Tuesday and Thursday; at periods III and IV omit Wednesday and Friday; at periods VI and VII omit Monday and Wednesday. Two-hour courses at the respective periods meet on the days that the three-hour courses omit. Period V, one-half hour, is reserved for chapel service.

Periods	Astronomy	Bible	Botany	Chemistry	Civil Engineering	Economics	Education	English	French	Geology	German	Greek	History	Household Economics
I.			7-8; 3 hrs. (and II.)	1-2, Sec. A, 2 hrs. (and II.) 9-10; 3 hrs. (and II.)	1, 2; 2 hrs. (and II.) 5, 6; 4 hrs.	3-4-5-6; 3 hrs.		1-2; 3 hrs. 5-6; 2 hrs.	5, 6; 3 hrs.	4, 9; 2 hrs. 7, 8; 3 hrs.			1-2, 14, 7b; 3 hrs.	
II.		3, 4; 3 hrs.	7-8; 3 hrs. (and I.) 14; 2 hrs.	1-2, Sec. A, 4 hrs. (and I.) 9-10; Friday (and I.)	1, 2; 2 hrs. (and I.) 10*, 13; 2 hrs.		12; 3 hrs.	1-2; 3 hrs. 3-4; 3 hrs. 15, 18; 2 hrs.	1-2; 4 hrs. 3-4; 4 hrs.		11-12; 4 hrs.		8b, 13, 17; 3 hrs.	
III.	3, 4; 4 hrs.		1-2, M. or W. (and IV.) 3-4; 5-6; 4 hrs. (and IV.)	1-2, Sec. C, 2 hrs. (and IV.)	3, 12; 4 hrs.	1-2; 3 hrs. M. Tu. Th or M. W. F.		1-2; 3 hrs. 3-4; 3 hrs. 13, 14; 2 hrs. 11, 17, 20; 3 hrs.	1-2; 4 hrs. 7-8; 3 hrs.	1, 2; 4 hrs.		A, B, C, D; 3 hrs. 9, 10; 2 hrs. 7-8; 2 hrs.	1-2, 3-4; 3 hrs.	A-B (and IV.)
IV.	9-10; 3 hrs.	1, 2; 3 hrs.	1-2, Tu. and Th. and M. or W. 3 hrs. (and III.) 3-4; 5-6; 2 hrs. (and III.)	1-2, Sec. C, 4 hrs. (and III.) 5-6, M. 1 hr. (and VI, VII)	7, 8; 4 hrs.		1-2; 3 hrs.	1-2; 3 hrs. 7, 8; 3 hrs. 9, 10; 2 hrs. 12; 3 hrs.		3*, 5, 6, 10; 3 hrs.	1-2; 4 hrs.		10a, 11; 3 hrs.	A-B (and III.)
VI.	14; 4 hrs. (with one evening hr.) 2a; 4 hrs.		9-10; 2 hrs. (and VII.) 11-12; 3 hrs. (and VII.)	1-2, Sec. B, 2 hrs. (and VII.) 5-6; 2 hrs. (and VII, IV.)	1, 2; 2 hrs. (and VII.) 4, 9*; 4 hrs. 15; 3 hrs.		5-6; 3 hrs.	21-22; 3 hrs. 25, 26; 2 hrs.	1-2; 4 hrs.					1-2; 4 hrs. (and VII.)
VII.			9-10; 2 hrs. (and VI.) 11-12; 3 hrs. (and VI.)	1-2, Sec. B, 4 hrs. (and VI.) 5-6; 2 hrs. (and VI, IV.)	1, 2; 2 hrs. (and VI.) 16; 3 hrs.			1-2; 3 hrs. 3-4; 3 hrs. 16; 2 hrs. 23-24; 3 hrs.	3, 4; 4 hrs.				1-2; 3 hrs.	1-2; 4 hrs. (and VI.) 3, 4; 2 hrs.
Hours to be arranged	6; 2 hrs. 7-8; 3 hrs.		17-18; 2 hrs. 19-20; 2 to 5 hrs.	11-12, 13-14, 15, 16, 17-18, 19-20.	*two periods for 9 and 10. to be arranged	7-8; 2 hrs.	7-8; 3 hrs.			*two periods to be arranged 11-12 13-14 15-16	3, 4; 4 hrs.	L. [Laboratory] 5, 6, 11, 12, 13, 14; 3 hrs.	6; 4 hrs. 15-16; 2 hrs. 18, 20; 3 hrs.	
Periods	Italian	Latin	Mathematics	Military Science	Music	Philosophy	Physical Education	Physics	Political Science	Public Speaking	Sociology	Spanish	Zoology	
I.		1, 2; 4 hrs.	1, 2, 2d; 3 hrs. 1b-4b, 2c; 5 hrs.		15-16; 2 hrs.			1, 2; 3 hrs. 1a-2a; 2 hrs. (and II.)				1-2; 4 hrs.	1-2, 3-4; 4 hrs. (and II.)	
II.		5, 6; 3 hrs. 7, 8; 3 hrs. 9-10; 2 hrs.	1, 2, 2d; 3 hrs. 3, 4, 15, 17, 18, 20; 4 hrs.			1; 3 hrs.		1a-2a; 2 hrs. (and I.)				8, 5, 6; 3 hrs.	1-2, 3-4; 2 hrs. (and I.)	
III.		1, 2; 4 hrs.	1, 2, 2d; 3 hrs. 5, 6; 4 hrs. 10; 3 hrs.		9-10; 3 hrs. 11-12; 2 hrs.	1; 3 hrs. 2a, 10; 3 hrs. 3, 4; 2 hrs.		3-4; 4 hrs. (and IV.) 7, 8; 3 hrs. 9-10*; 2 hrs.			1, 2; 3 hrs.	3, 4; 4 hrs.	7-8; 4 hrs. (and IV.)	
IV.	1, 2; 4 hrs.	3, 4; 4 hrs.	1, 2, 2d; 3 hrs. 1b-2b; 5 hrs.		3-4; 2 hrs. 7-8; 3 hrs.			3-4; 4 hrs. (and III.)	1; 3 hrs. M. Tu. Th. or M. W. F. 4, 2; 3 hrs.	1-2; 3 hrs.	3, 4; 3 hrs.	1-2; 4 hrs.	5, 6; 3 hrs. 7-8; 2 hrs. (and III.)	
VI.		11-12; 2 hrs.		1-4, sec. A, 2 hrs. (and VII.) 1-4, sec. B, W. (and VII.) 5-6, sec. A, 4 hrs. (and VII.) 5-6, sec. B, W. (and VII.)	5, 6; 3 hrs. 13, 14; 2 hrs.	9; 3 hrs.		1-2; 3 hrs. 3-4; 4 hrs. (and VII.) 5, 6; 3 hrs. (and VII.)		3a-4a; 3 hrs.	1, 2; 3 hrs.	1-2; 4 hrs.		
VII.		A; 4 hrs. B; 4 hrs.	1, 2, 2d; 3 hrs.	1-4, sec. A, W. (and VI.) 1-4, sec. B, 2 hrs. (and VI.) 5-6, sec. A, W. (and VI.) 5-6, sec. B, 4 hrs. (and VI.)	1, 2; 2 hrs.	6, 7; 3 hrs.		3-4; 4 hrs. (and VI.) 5, 6; 3 hrs. (and VI.) 11; 2 hrs.	3, 5, 6; 3 hrs.	1-2; 3 hrs. 5a; 2 hrs.				
Hours to be arranged						8; 1 to 3 hrs.	1-2, 3-4; 1 hrs. 7-8, 5-6; 3 hrs.	*a 4-hr. lab'tory period to be arranged.	7-8; 2 hrs.	6a; 3 hrs.			11-12; 2 to 5 hrs. 13-14; 3 to 5 hrs.	

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed below each name.

2. The second part of the document is a list of the names of the members of the committee, and the names of the members of the committee are listed in alphabetical order.

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